

To,

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

**Date: 22 Nov 2022**

**Ref: GGIAL/MoEF&CC-EC/2022-2023/1283**

**Sub: Submission of Half Yearly EC Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from April 2022 to September 2022.**

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

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

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Dear Sir,

With reference to the subject & reference mentioned above, we are herewith submitting the Half Yearly Environmental Clearance (EC) Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from April 2022 to September 2022. The construction phase of the Phase-1 project is in advanced stages of completion and expected to commence airport operation in early 2023.

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

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

Thanking you,

Yours Sincerely,  
for **GMR Goa International Airport Limited**



**R V Sheshan**  
**Chief Executive Officer**

Enclosure: As above

Copy for kind information to:

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



**HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT  
(Period: April 2022 to September 2022)**



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



**Point-wise compliance**

No.	Reference No.	Conditions	Compliance
<b>Conditions of EC dated 28/10/2015</b>			
1.	4 (A) (i)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Renewal of 'Consent to Establish' has been obtained from Goa State Pollution Control Board (GSPCB), vide Letter No. 12/2019-PCB/299315/R0002481 dated 29/01/2020 with validity for 3 years. Project is under development phase. infrastructures are being developed to meet the compliance requirements.
2.	4 (A) (ii)	The Project Proponent shall ensure 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 Government of Goa (GoG).
3.	4 (A) (iii)	The approach and exit roads to the Airport shall be approved from the NHA and should be according to IRC norms.	As per Concession Agreement, this is being addressed by Government of Goa (GoG).The construction work has begun and 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 the outfall 2.	Complied. The engineering design & drawings of the drainage system has been approved by Water Resources Department, (WRD), GoG. Channelization of storm water in-between Runway and Parallel Taxiway is



No.	Reference No.	Conditions	Compliance
			completed and the storm water drained in the 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 <sup>th</sup> 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.	STP outlet standards prescribed by GSPCB in the CTE are considered for the STP design, will be addressed and complied with during operational phase of airport. The treated sewage shall be recycled for flushing, cooling tower make-up/ gardening. Proper dual plumbing has been e provided. The construction work of 625 KLD STP completed.
7.	4 (A) (vii)	The solid waste generated shall be properly collected, segregated and disposed 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 generation of solid wastes including PET bottles.	Noted. Compliance shall be ensured. Project is in construction phase and necessary infrastructure to ensure compliance with given conditions are being built.
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	Being Complied. As per the revised categorization of DG sets by CPCB, the stand alone DG sets



No.	Reference No.	Conditions	Compliance
			having capacity less than 1000 KVA do not require 'consent to operate' by GSPCB. Project is in construction phase. Presently, DG Sets at construction site are of less than 1000 KVA capacity. These DG sets are provided with adequate stack height and acoustic enclosures. Stand by DG Sets 2000 KVA X 3 are installed at the site and Consent to Operate has been received from GSPCB.
9.	4 (A) (ix)	Parking provision shall be provided according to the National Building Code of India, 2005.	Parking provision has been made in the master plan and construction work is under progress.
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.	Provision of water meters is in progress.
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 the Water Resources Department (WRD), Goa. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).



No.	Reference No.	Conditions	Compliance
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) 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 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 during operational phase of airport. Construction of STP is completed. Treated water will be used for flushing, cooling tower make up and gardening.
14.	4 (A) (xiv)	Rain water harvesting shall be provided to recharge the ground water.	Noted. Rain water harvesting has been provided to recharge the 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.	Energy conservation, water conservation (reuse / recycle, rain water harvesting and water efficient fixtures) and other green building practices for various buildings are incorporated within the airport complex. ECBC Guidelines are followed to achieve energy-efficiency. Compliance shall be ensured during operational phase.



No.	Reference No.	Conditions	Compliance
16.	4 (A) (xvi)	The project proponent shall prepare a detailed traffic management plan to take care of increased vehicular traffic which should also cover/clearly delineate widening/ increasing the existing roads and associated road infrastructure approving/ installation of road safety features/pedestrian facility/FOB/under passes etc. (that can be done by carrying out road safety audits). Measures shall be taken to prevent encroachment along/ within the Rows on connecting/ main arterial roads.	As per Concession Agreement (CA), this is being addressed by Government of Goa.
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.	Noted. Compliance shall be ensured. Compliance to the EIA mitigation measures in Matrix Format is attached as <b>Annexure - 1</b> .
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	Noted. Compliance is ensured.
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.	Noted. Compliance shall be ensured. Currently, project is in construction phase and ambient noise levels monitoring are being conducted by MoEF&CC approved and NABL accredited Environmental Laboratory. Noise level monitoring reports are enclosed in <b>Annexure-2</b> .
20.	4 (A) (xx)	The location of monitoring stations and monitoring of noise level during day and night shall be in accordance with the CPCB	The location of monitoring stations and monitoring of noise level during day and night is in accordance with the CPCB



No.	Reference No.	Conditions	Compliance
		guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 <sup>th</sup> June, 2008.	guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 <sup>th</sup> June, 2008. Monitoring & compliance will be ensured during operational phase.
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.	Being Complied. Waste Management Plan is prepared and 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.	Being Complied. Hazardous waste is being disposed-off to GSPCB authorized recyclers.
23.	4 (A) (xxiii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Noted. EC had been obtained from MoEF&CC on 28 <sup>th</sup> October 2015 before starting the construction and Amended in 3 <sup>rd</sup> March 2020. The project is under construction phase.
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 VP & Head – EHS & Sustainability.
25.	4 (A) (xxv)	<b>Corporate Environment Responsibility:</b> a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	Complied. Environment Policy is in place.





No.	Reference No.	Conditions	Compliance
		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.
		c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Complied.
		d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/ or shareholders or stakeholders at large.	Complied.
<b>B.</b>	<b>GENERAL CONDITIONS:- EC dated 28/10/2015</b>		
26.	4 (B) (i)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Being Complied. Labor colony has been established within project site with all necessary infrastructure and facilities.
27.	4 (B) (ii)	A First Aid Room will be provided in the project both during construction and operation of the project.	Being Complied. First Aid Centre with medical staff has been provided.
28.	4 (B) (iii)	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Being Complied. The excavated top soil was stored at designated locations within the site and same is being utilized for the landscaping and horticulture purposes.



No.	Reference No.	Conditions	Compliance
29.	4 (B) (iv)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Being Complied. Entire quantity of excavated earth work is being used for filling & levelling within the site premises.
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.	Being Complied. Low Sulphur diesel is being used. Clearance from Chief Controller of Explosives has been obtained for storage of Diesel during construction phase.
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.	Vehicles hired for bringing construction material to the site are in good condition and carry Pollution Under Control (PUC) certificate and conform to applicable air and noise emission standards. Being Complied. (Sample is enclosed in <b>Annexure-1</b> ). Vehicles bringing construction materials are using National Highway (NH) and State Highway (SH) roads, to reach out to 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.



No.	Reference No.	Conditions	Compliance
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 <sup>th</sup> August, 2003.	Being Complied. Fly ash is being used in Ready Mixed Concrete (RMC).
33.	4 (B) (viii)	Ready mixed concrete must be used in building construction.	Ready Mixed Concrete (RMC) are used in all building construction. Being Complied.
34.	4 (B) (ix)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Being Complied. Considered in the engineering design, vetted by IIT Mumbai.
35.	4 (B) (x)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Being Complied. Curing agents are being used. All concrete works are being done with pre-mixed concrete i.e. RMC only.
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.	Compliance is being ensured. The buildings are incorporated with dual plumbing system.
37.	4 (B) (xii)	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Compliance is being ensured. The glazing work in PTB and ATC tower buildings are being executed with double glass unit.
38.	4 (B) (xiii)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Compliance is ensured. Execution is being carried out as per ECBC/IGBC Guidelines with thermal insulation having required Solar Reflective Index (SRI). Passenger Terminal Building (PTB) has been accorded with



No.	Reference No.	Conditions	Compliance
			Provisional Certificate - IGBC Platinum Standard 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.	Compliance is ensured. Execution is done 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.	Noted. Compliance, as applicable for safe operation of airport, 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.	Noted. Compliance will be ensured in consultation with GoG.
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.	Noted. Compliance is ensured. Construction License has been obtained from MADA through vide letter No. MADA/05/AGENDA-MTG02/20L8/15 on 20 <sup>th</sup> February 2020
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.	Being Complied. Statutory approvals of approved quarries from where construction materials are being sourced are submitted, (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).



No.	Reference No.	Conditions	Compliance
44.	4 (B) (xix)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Being Complied. Details are submitted in <b>Annexure-1</b>
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.	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 from April 2022 to September 2022 are enclosed in <b>Annexure – 2.</b>
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.



No.	Reference No.	Conditions	Compliance
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.	<ol style="list-style-type: none"> <li>1. Financial Closure for the project has been achieved on 7<sup>th</sup> July 2017.</li> <li>2. The approval of the project obtained from Director General of Civil Aviation (DGCA), GoI, New Delhi vide their letter no. AV.20024/17/00-AL dated 27<sup>th</sup> July 2017.</li> <li>3. Land development work has already been started (Letter submitted to Regional office of MoEF&amp;CC vide letter no. GGIAL/MoEF&amp;CC/2018/0194 dated 26<sup>th</sup> February 2018).</li> </ol> <p>The above details have been further submitted to Regional Office, MoEF&amp;CC and MoEF&amp;CC, New Delhi vide our letter No. GGIAL/MoEF&amp;CC-EC/2020-21/0519 dated 13<sup>th</sup> August 2020.</p>
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	Complied.



No.	Reference No.	Conditions	Compliance
		Industries centre and Collector's Office / Tehsildar's office for 30 days.	
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 expenditures during Financial Year 2022-23 is enclosed as <b>Annexure – 3.</b>
54.	5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	Relevant environmental acts and rules are being complied with.
55.	6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Being Complied. Necessary approvals from the concerned authorities are being obtained as applicable. List of various statutory clearances / permits / approvals related to Environment, obtained or applicable to the airport project are submitted (Refer Annex – 4 of Half yearly EC compliance report submitted vide letter no. GGIAL/MoEF&CC-EC/2022-2023/0990 dated 16 <sup>th</sup> May 2022). List of approval / clearances / permits obtained in period of April 2022 to



No.	Reference No.	Conditions	Compliance
			September 2022 is enclosed as <b>Annexure-4.</b>
56.	7	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry.	Complied. EC was published in Tarun Bharat and Navhind Times on 31 <sup>st</sup> August 2015.
57.	8	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No .460 of 2004 as may be applicable to this project.	Noted.
58.	9	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Being Complied. All stipulated environmental conditions and environmental safeguards are being compiled in Half Yearly EC Compliance Report and the same is being uploaded on 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 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Compliance is being ensured. Environmental Statement for temporary construction plants viz., Hot Mix Plant, Batching Plant, Wet Mix Macadam (WMM) Plant and Crushing Plants have been submitted to Goa State Pollution Control Board.
<b>Additional NGT Conditions vide NGT order dated 21/08/2018</b>			
	<b>A</b>	<b>Air Environment</b>	
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Un-burnt and Hydro Carbons (HC), Lead (Pb), CO <sub>2</sub> , SO <sub>2</sub> , CO <sub>2</sub> , 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 and capable of monitoring all relevant and critical parameters and mitigation measures taken.	<b>Being Complied.</b> Currently in the construction phase of the project, Environmental Quality Monitoring of Suspended Particulate Matter (SPM), PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOx, CO are being conducted. The AAQ Monitoring report is enclosed as <b>Annexure-2.</b> Total VOC Monitoring being conducted within the Mopa Airport premises and the test report are enclosed in <b>Annexure-2.</b> Real time online Continuous Ambient Air Quality Monitoring Station (CAAQMS)



No.	Reference No.	Conditions	Compliance
			has been installed and commissioned at GSPCB approved location.
62.	2	Although all parameters w.r.t ambient air parameters have been found to be within limits for all 6 (six) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient air in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of AAQ monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as <b>Annexure - 2.</b>
	<b>B</b>	<b>Water Environment</b>	
63.	1	Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.	Noted. Compliance shall be ensured. The rain water harvesting plan has been revised and also approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2022-23/59 dated 26-05-2022. The same is enclosed in <b>Annexure-4</b>
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.	Being complied. Water Quality Monitoring reports are enclosed in <b>Annexure-2.</b>
	<b>C</b>	<b>Noise Environment</b>	
65.	1	It has been proposed that ambient noise levels shall be monitored around the premises of airport, near DG sets and at main entrance/boundary of airport once a week at 7 (seven) locations which we feel are inadequate. Besides these, continuous monitoring of occupational noise exposure limits in such industrial	Noted. Compliance is being ensured. Project is in construction phase and Noise levels monitoring at 12 locations in and around the airport premises is being carried out by MoEF&CC approved Environmental Laboratory.



No.	Reference No.	Conditions	Compliance
		environments would be appropriate with audible or visual alarm output capability.	Noise Monitoring reports are enclosed in the <b>Annexure-2</b> .
66.	2	Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.	Noted. Compliance shall be ensured during operational phase.
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.	Being 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 <b>Annexure-2</b> .
	<b>D</b>	<b>Land Environment</b>	
68.	1	There is a potential for impact on soil quality due to project related spills and leaks of fuel and chemicals and uncontrolled disposal of wastes and waste water. Adequate care be taken to avoid spills and leaks of hazardous substances and all project related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	Being Complied. Secondary containment of adequate capacity is constructed at bulk bitumen and LDO storage tanks.
69.	2	Debris and Muck Management Plan to be prepared and implemented so as to avoid spillage of muck and debris on the slopes.	Being Complied. Plan is prepared and being implemented.
70.	3	Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.	Complied. Compliance ensured as per requirements. Soil stabilization is ensured by providing geotextile materials on slopes. Gabion walls are



No.	Reference No.	Conditions	Compliance
			provided as a soil retaining structures wherever required.
71.	4	Remediation, restoration and compensation needs to be integral part of policy so as to provide adequate relief for any environmental or project related disasters.	Complied. Framework for remediation, restoration and compensation for any unlikely event of environmental or project related disasters has been prepared.
	<b>E</b>	<b>Biological Environment</b>	
72.	1	Efforts be made to transplant the trees to other locations in the same vicinity by using appropriate mechanical devices which are available these days.	Complied. Efforts have been made to translocate 500 nos. of trees within site premises.
73.	2	Efforts be made to plant indigenous species which are tall in size rather than small saplings.	Noted. Compliance is being ensured. Landscaping work is in progress for which indigenous tall species are being planted.
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 forest conservatory by Forest Department, GoG.



No.	Reference No.	Conditions	Compliance
	<b>F</b>	<b>Socio-economic Environment</b>	
75.	1	Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response to any disasters both man-made or natural.	Being Complied. 'Onsite Emergency and Disaster Management Plan' for the construction phase of the project is prepared and being implemented. Emergency response drills are being conducted at construction site.
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.	Being Complied. Updated 'Onsite Emergency and Disaster Management Plan' for the construction phase of the project is prepared and being implemented. Emergency response drills are being conducted at construction site.
<b>Addendum to EC dated 23<sup>rd</sup> March 2020</b>			
	<b>I</b>	<b>Statutory compliance</b>	
77.	(i)	The project proponent shall obtain certificate from Chief Wildlife Warden (CWLW) of State through State Government that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) and no activity prohibited in the Eco-sensitive zone will be taken up.	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-



No.	Reference No.	Conditions	Compliance
			EC/2021-2022/0688 dated 24 <sup>th</sup> 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 Establish has been obtained from GSPCB. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
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 Tilari irrigation Canal. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
	<b>II</b>	<b>Air quality monitoring and preservation</b>	
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the airport area covering upwind and downwind directions.	Being Complied. Ambient Air Quality Monitoring for common / criterion parameters relevant to main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside of the project area is being carried out



No.	Reference No.	Conditions	Compliance
			through MoEF&CC approved laboratory. The AAQ Monitoring report is enclosed as <b>Annexure - 2</b> .
81.	(ii)	Notification GSR 94 (E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	Dust mitigation measures are being complied and details are enclosed in <b>Annexure-1</b>
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	Being Complied. Soil and other construction materials are sprayed with water during loading, unloading and transfer operation. Details are enclosed in <b>Annexure-1</b> .
83.	(iv)	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	Being complied. Excavated areas are being kept wet by spreading water.
84.	(v)	Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.	Being Complied. Excavated materials are transported with trucks, which are properly covered with tarpaulin sheets. Details are enclosed in <b>Annexure-1</b> .
85.	(vi)	The soil/construction materials carried by the vehicle should be covered by impervious sheeting to avoid leaking of the dusty materials.	Being Complied. Soil/construction materials are transported with trucks which are properly covered with tarpaulin sheets. Details are enclosed in <b>Annexure-1</b> .
	<b>III</b>	<b>Water quality monitoring and preservation</b>	



No.	Reference No.	Conditions	Compliance
86.	(i)	Appropriate drainage channels need to be designed to take care of the water flow into the nearest water courses/rivers, etc.	Compliance ensured. The rain water harvesting plan has been revised and also approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2022-23/59 dated 26-05-2022. The same is enclosed in <b>Annexure-4</b>
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. Revised drainage plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2022-23/59 dated 26-05-2022 is enclosed in <b>Annexure-4.</b>
88.	(iii)	Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area. Domestic and industrial waste water shall not be allowed to be discharged into the storm water drains and directed to STP for treatment.	Compliance is being ensured. Construction of Sewage Treatment Plant (STP) is completed. Entire waste water generated will be treated in STP and will be further reused for flushing, gardening and cooling tower makeup.
89.	(iv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Compliance shall be ensured. Spill containment plan is prepared and the





No.	Reference No.	Conditions	Compliance
			implementation will be ensured accordingly.
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.	Compliance is being ensured. Runoff from the paved structure like Apron will be routed through Oil Water Separator (OWS). The construction of the same is completed..
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.	Compliance is being ensured. Runoff from chemicals and other contaminants from aircraft maintenance and other areas will be routed through Oil Water Separator (OWS) before disposal. The construction of same is completed. A spillage and contaminant containment plan is prepared and implementation will be ensured accordingly.
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.	Being complied. General Standards for Discharge of Environmental Pollutants in the Environment (Protection) Rules, 1986 was considered in design phase itself and the same will be 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	Compliance is being ensured. Rainwater harvesting for roof runoff and surface runoff is being implemented as per



No.	Reference No.	Conditions	Compliance
		surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	WRD, GoG approved rainwater harvesting plan. Pre-treatment will be ensured before recharging.
	<b>IV</b>	<b>Noise monitoring and prevention</b>	
94.	(i)	Notification G.S.R. 568(E) dated 18.06.2018 of MoEF&CC regarding Ambient Air Quality Standards with respect to Noise in Airport Noise Zone shall be complied with.	Airport Noise Zone Mapping is under progress. Compliance shall be ensured during operational phase.
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.	Being Complied. Noise levels monitoring in and around the airport is being conducted through MoEF&CC approved laboratory. Monitoring reports are enclosed in <b>Annexure - 2.</b>
96.	(iii)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	Being Complied. DG sets are installed with acoustic enclosures. Random workplace noise levels monitoring is being carried out through MoEF&CC approved laboratory. Monitoring reports are enclosed in the <b>Annexure-2.</b>
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.	Compliance is being ensured. DG sets are installed with acoustic enclosures. Necessary PPEs are provided to the operating personnel.



No.	Reference No.	Conditions	Compliance
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.	Noted. Compliance shall be ensured during operational phase.
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.	Noted. Being Complied. Construction activities are being restricted during day-time wherever and whenever required.
	<b>V</b>	<b>Energy Conservation/climate change measures</b>	
100.	(i)	Energy conservation measures like installation of LED should be integral part of the project design and should be in place before project commissioning.	Compliance is ensured. 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 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.	Compliance is being ensured. The requirements of Green Infrastructure Development program, adoption of less emission intensive technologies, renewable energy program and electrical vehicles are considered in the design and work is being executed accordingly. Airport Carbon Accreditation shall be adopted during operational phase.
	<b>VI</b>	<b>Waste Management</b>	



No.	Reference No.	Conditions	Compliance
102.	(i)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical).	Complied. Soil stockpiles were managed and properly stabilized to minimize dust emission and sediment runoff.
103.	(ii)	The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.	Being Complied. Fly Ash is being 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.	Integrated Solid Waste Management Yard is constructed and Solid Waste Management Agency is on board and facilities are being made ready. Compliance shall be ensured during operational phase.
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.	Being Complied. Solid inert waste found on construction site is strictly managed as per the Solid Waste Management Rules, 2016 and C&D Waste Management Rules, 2016.
106.	(v)	The project proponents shall implement a management plan duly approved by the State Pollution Control Board and obtain its permissions for the safe handling and disposal of:	Waste Management Plan is prepared. Compliance shall be ensured during operational phase.
	a.	Trash collected in flight and disposed at the airport including segregation, collection and disposed.	
	b.	Toilet wastes and sewage collected from aircrafts and disposed at the Airport.	



No.	Reference No.	Conditions	Compliance
	c.	Wastes arising out of maintenance and workshops	
	d.	Wastes arising out of eateries and shops situated inside the airport complex.	
	e.	Hazardous and other wastes	
	<b>VII</b>	<b>Green Belt</b>	
107.	(i)	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter-alia cover the entire periphery of the Air Port.	Noted. Compliance, as applicable for safe operation of airport, 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.	Noted. Compliance as applicable for safe operation of airport 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 shall be 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	Government of Goa (GoG), through Goa State Biodiversity Board (GSBB) has carried out plantation of 5 lakh f 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.	
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Being Complied. The excavated top soil was stored at designated locations within the site and currently the same is being utilized for the landscaping and horticulture purposes.
	<b>VIII</b>	<b>Public hearing and Human health issues</b>	
112.	(i)	Solution/management plan regarding redressal of all the concerns raised in the public hearing must be clearly spelt out in the EMP and shall be implemented in letter and spirit. Compliance for each mitigation plan shall be submitted to Regional Office, MoEF&CC along with half yearly compliance report.	Being 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.	Being Complied. Provision of Electro-mechanical doors and children nursing/feeding rooms are near to completion.
114.	(iii)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being implemented for the construction phase of the project.
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	Complied. Labor colony has been established within project site with all necessary infrastructure and facilities.



No.	Reference No.	Conditions	Compliance
		of temporary structures to be removed after the completion of the project.	
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.
<b>Conditions of Hon'ble Supreme Court of India (SCI) Order dated 16/01/2020</b>			
117.	(i)	Ref. No. 47: Adopt a Zero Carbon Programme during construction and operational phases of the Airport.	Noted. Compliance shall be ensured. In line with our commitments submitted to SCI, infrastructure required for the Zero Carbon program during operational phase is considered in the design and will be implemented during the operational phase of the Airport as per the plan.
118.	(ii)	Ref. No. 48 : The National Environmental Engineering Research Institute (NEERI) to be appointed to oversee compliance with the directions cumulatively issued by the Supreme Court.	Complied. NEERI has been appointed. NEERI visited project site and reviewed the EC compliance on 28 <sup>th</sup> June 2022. Further, NEERI reviewed the EC compliances on 27 <sup>th</sup> September 2022.



**ANNEXURE – 1**  
**ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS**  
**AS OF SEPTEMBER 2022**

S. No.	Mitigation measures	Compliance status
<b>Mitigation measures for Air Environment during Construction Phase</b>		
01	Ensure preventive maintenance of vehicles and equipment.	Being Complied. All construction vehicles and equipment at site are going through periodical preventive maintenance. Sample copy of Checklist for maintenance is enclosed as <b>Annexure-A.</b>
02	Ensure vehicles with valid Pollution Under Control certificates are used.	Being Complied. All construction vehicles working at site are having their Pollution Under Control (PUC) certificates and same are being renewed time to time. Sample copy of PUC certificate is enclosed as <b>Annexure-B.</b>
03	Implement dust control activities such as water sprinkling on unpaved sites.	Being Complied. Dust control measures are being implemented at site in the areas viz., excavation sites, transportation of materials, unpaved roads, etc. Dust suppression is being carried out using water tankers and fog cannons. Sample photographs of implementation of dust control measures are enclosed as <b>Annexure-C</b>





## Half Yearly EC Compliance Report (April 2022 to September 2022)

S. No.	Mitigation measures	Compliance status
04	Ensure vertical stacks with height sufficient for dispersion as per CPCB guideline for DG stacks.	Being complied. All DG sets working at site are provided with sufficient vertical stack height as per the CPCB Guidelines. Photo showing DG with adequate stack height is enclosed in the <b>Annexure-D</b> .
<b>Mitigation measures for Water Environment during Construction Phase</b>		
05	Monitor water usage at construction camps to prevent wastage.	Being Complied. Water usage at construction camps is being monitored using water meters.
06	Ensure STP at construction camps/sites and the proposed facilities are properly designed to handle peak waste water load and properly maintained.	Complied. Temporary STP of 150 KLD and 50 KLD are in operation at the construction workmen camp. The STPs are within project site premises and designed to handle peak waste water load and being properly maintained.
07	Ensure supply of temporary/portable toilets for construction staff.	Being Complied. Sufficient number of temporary / portable toilets are provided for construction staff at site. Sample photo of portable toilet facility is enclosed as <b>Annexure-E</b> .
<b>Mitigation measures for Land Environment during Construction Phase</b>		
08	Avoiding rainy season for construction so as to avoid soil erosion.	Appropriate measures taken to avoid soil erosion during the rainy season.
09	Restricting all construction activities inside project boundary.	Being followed.



## Half Yearly EC Compliance Report (April 2022 to September 2022)

S. No.	Mitigation measures	Compliance status
10	Ensure top soil stock pile is not contaminated with any type of spills.	Being followed. The excavated top soil was stored at designated locations within the site away from the possible spill areas. Same is being utilized for landscaping and horticulture purposes.
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.	Being followed. Materials resulting from clearing and grading at construction site are strictly managed as per the Solid Waste Management Rules, 2016 and Construction & Demolition Waste Management Rules, 2016.
<b>Mitigation measures for Noise Environment during Construction Phase</b>		
12	Ensure preventive maintenance of equipment and vehicles.	Being Complied. All construction vehicles and equipment at site are going through periodical preventive maintenance. Sample copy of Checklist for maintenance is enclosed as <b>Annexure-A</b> .
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	Being complied. All DG sets working at site are provided with acoustic enclosure, exhaust mufflers and sufficient vertical stack height as per the CPCB Guidelines. Photo showing DG with adequate stack height is enclosed in the <b>Annexure-D</b> .
14	Ensure vehicle movement is avoided at night, and close to sensitive receptors (such as schools, hospitals, place of worships).	Being Complied with.



S. No.	Mitigation measures	Compliance status
<b>Mitigation measures for Biological Environment during Construction Phase</b>		
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.
<b>Mitigation measures for Socio-economic Environment during Construction Phase</b>		
18	Prohibit use of firewood in project camps and making use of cooking gas is mandatory.	Being Complied. Labour colony has been established within site with LPG based cooking system.
19	Regulating speed limit of the vehicles	Being regulated.



## ANNEXURE – A

### PREVENTATIVE MAINTENANCE OF VEHICLES

**TEAM FIELD SERVICE REPORT**

TEAM ENGINEERS: TW No. - 20220403032  
 Work Order No. 22000003 Date: 03/04/2022 F04

Machine Model	G3190	Machine SN	AF060073	Engine SN	19/
Delivery Date		HMR	14875	Under Warranty	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Application	Grading			Break Down	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Customer	R. B. K.	Contact Person	Mr. Krishna		
Machine Location	Mapa	Contact No.	9015200592		

Complaint: L.H. side rear hub assembly and alignment.

Cause: 1) Connecting flange worn out. 2) when assembling hubs found connecting flange worn out due to bearing failure.

Correction: Need to replace connecting flange.

Parts Used (Please attach a separate sheet to this form if the space for parts is insufficient)					
Part Number	Description	Qty	Part Number	Description	Qty
411000190311	Connecting flange	01			

Lead technician: Sudeesh Nair Assistant:

Trip	Dispatch	Arrival at site	Leaves from site	Back to office	Total mileage	Job start	Job complete
	Date Time	Date Time	Date Time	Date Time		Date Time	Date Time
1 <sup>st</sup>	03/04/2022 11:20	03/04/2022 12:00	03/04/2022 2:00	03/04/2022 11:45	125896/6	11:55	02:00
2 <sup>nd</sup>							
3 <sup>rd</sup>							

Any Other Findings On Machine / Recommendations:  Satisfied  Normal  Unsatisfactory

Customer: [Signature] Technician: [Signature] Supervisor: [Signature]

**TEAM FIELD SERVICE REPORT**

TEAM ENGINEERS: TW No. - 20220420003  
 Work Order No. 22000014 Date: 20/4/2022 F04

Machine Model	G3190	Machine SN	630084	Engine SN	6369
Delivery Date		HMR		Under Warranty	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Application	Grading			Break Down	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Customer	L.S.C	Contact Person	Mr. Krishna		
Machine Location	Mapa Airport	Contact No.	9015200542		

Complaint: Engine ~~and~~ radiator cooling fan broken.

Cause: Cause is unknown. As we found everything is intact. Checked radiator mounting bolt, engine mounting, transmission mounting found ok.

Correction: Replaced with the new one fan. Trial taken machine found ok.

Parts Used (Please attach a separate sheet to this form if the space for parts is insufficient)					
Part Number	Description	Qty	Part Number	Description	Qty

Lead technician: Sudeesh Nair Assistant:

Trip	Dispatch	Arrival at site	Leaves from site	Back to office	Total mileage	Job start	Job complete
	Date Time	Date Time	Date Time	Date Time		Date Time	Date Time
1 <sup>st</sup>	20/04/2022 11:55	20/04/2022 11:55	20/04/2022 11:55	20/04/2022 11:55	12896/6	11:55	11:55
2 <sup>nd</sup>							
3 <sup>rd</sup>							

Any Other Findings On Machine / Recommendations:  Satisfied  Normal  Unsatisfactory

Customer: [Signature] Technician: [Signature] Supervisor: [Signature]



**ANNEXURE - B**

**PUC CERTIFICATE**

**Pollution Under Control Certificate**  
 Authored By  
 Government of Maharashtra

Date: 17/12/2021  
 Time: 14:08:59 PM  
 Validity upto: 16/12/2022

Certificate No. : MH0120369000890  
 Registration No. : MH16CC7421  
 Date of Registration : 09/Jul/2019  
 Month & Year of Manufacturing : July 2019  
 Vehicle Model Number : 1111111111  
 Emission Norms : BHARAT STAGE IV  
 Fuel : DIESEL  
 PUC Code : MH0120369  
 GSTIN :  
 Fees : Rs. 110.0  
 M.L. observation : No

Vehicle Photo with Registration plate  
 60 mm x 30 mm

MH.16.CC.7421

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.08

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <http://vehan.parivahan.gov.in>

Authorized Signature with stamp of PUC operator  
 60mm x 20 mm

**GOVERNMENT OF MAHARASHTRA**  
 Motor Vehicle Department  
 AURANGABAD  
 FORM 38  
 [See Rule 62(1)]  
**CERTIFICATE OF FITNESS**  
 (Applicable in the case of transport vehicles only)

Vehicle No: MH20EL0698 (Goods Carrier) is certified as complying with the provisions of the Motor vehicles Act, 1988 and the rules made there under.

Registration No : MH20EL0698  
 Application No : MH211208VS240548  
 Inspection Fee Receipt No : MH211208C0212547  
 Receipt Date : 08-Dec-2021  
 Chassis No : MC2M6GRC0JJ058363  
 Engine No : VEDX8\*485847\*B1\*P  
 Seating Capacity : 2 (Including Driver)  
 Type of Body : CAB & TIPPER  
 Manufacturing Year : 2018  
 Category of Vehicle : HGV  
 Inspected on : 09-Dec-2021

Printed on : 13-Dec-2021 17:25:33

Certificate will expire on : 08-Dec-2023  
 Next Inspection Due : 10-Oct-2023  
 Date

Inspected by (BHAGYASHRI JAGDISH DESHMUKH)

Signature of Inspecting Authority  
 AURANGABAD



**ANNEXURE – C**

**DUST CONTROL MEASURES IMPLEMENTED AT SITE**



**WATER SPRINKLING ON UNPAVED HAUL ROADS**



**FOG CANNONS DEPLOYED AT EARTH WORK**





**CONSTRUCTION / EXCAVATED MATERIALS TRANSPORTED BY COVERING WITH TARPULIN SHEETS**

**ANNEXURE - D**

**DIESEL GENERATORS WITH ADEQUATE STACK HEIGHT AND ACCOUSTIC ENCLOSURE**



GMR GOA INTERNATIONAL AIRPORT LIMITED



**ANNEXURE – E**  
**PORTABLE TOILET FACILITIES**



CS



## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

## AMBIENT AIR LOCATION

Location of ambient air station	Mopa Boundary (Goa State) (G-A1)					
Average Ambient Temperature (°C)	32.4	Average Humidity (%)	64	Latitude	N 15°45'51.1"	
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	243	Longitude	E 73°56'32.4"	
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)					

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0078	88.53	38.38	6.35	9.09	0.08	126.30
2.	07/04/2022	SEE/AR/04/2022/0156	45.24	12.27	<3.00	<6.00	0.03	58.29
3.	11/04/2022	SEE/AR/04/2022/0216	55.74	9.11	6.68	8.98	0.05	67.35
4.	14/04/2022	SEE/AR/04/2022/0302	48.98	14.26	5.18	10.09	0.06	64.31
5.	18/04/2022	SEE/AR/04/2022/0346	64.56	15.72	<3.00	7.29	0.03	82.96
6.	21/04/2022	SEE/AR/04/2022/0388	59.01	22.54	<3.00	<6.00	0.07	90.45
7.	25/04/2022	SEE/AR/04/2022/0423	86.14	23.58	3.38	6.51	0.09	113.50
8.	28/04/2022	SEE/AR/04/2022/0468	41.33	15.72	5.29	12.53	0.05	63.85
NAAQS Limits*			100	60	80	80	4	
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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

1) Akash Pattade

2) Dipali Sawant

Analyzed by

V. Chopdekar

Varsha Pole

Reviewed by

Ajaydeep 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 (SR NO.2027-DTD-2015)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

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



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SEEPLD

Labs accredited by MoEF & CC (Valid upto 03.11.2023) & Certified by ISO 9001:2015 & ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan Boundary (Goa State) (G-A2)				
Average Ambient Temperature (°C)	32.1	Average Humidity (%)	62	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	213	Longitude	E 73°49'21.5"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0079	48.39	19.29	4.58	11.77	0.07	72.97
2.	07/04/2022	SEE/AR/04/2022/0157	30.67	14.60	<3.00	<6.00	0.05	46.11
3.	11/04/2022	SEE/AR/04/2022/0217	35.72	15.51	6.10	8.28	0.06	52.01
4.	14/04/2022	SEE/AR/04/2022/0303	32.73	12.39	6.24	12.46	0.03	45.72
5.	18/04/2022	SEE/AR/04/2022/0347	42.08	17.92	<3.00	7.34	0.08	61.86
6.	21/04/2022	SEE/AR/04/2022/0389	37.29	13.35	<3.00	7.54	0.05	51.22
7.	25/04/2022	SEE/AR/04/2022/0424	41.57	17.59	<3.00	<6.00	0.07	60.27
8.	28/04/2022	SEE/AR/04/2022/0469	34.38	16.72	<3.00	<6.00	0.03	51.91
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	-
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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 11)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

1) Akash Pattade  
2) Dipal Sawant  
Analyzed by

Varsha Pola  
Reviewed by

Amitdeep 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 BL(SR NO.2028-DTD-2016)	LES-CCL/FF/MF/SC/1146	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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SPAC 10001

QMS 1001

Lab accredited by MoEF & CC-Vard up to 03.11.2023 ✪ Certified by ISO 9001:2015 & ISO 15001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	31.9	Average Humidity (%)	65	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	242	Longitude	E 73°53'14.22"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0080	66.05	21.08	6.10	9.11	0.06	90.62
2.	07/04/2022	SEE/AR/04/2022/0158	43.88	9.69	<3.00	<6.00	0.05	54.12
3.	11/04/2022	SEE/AR/04/2022/0218	30.43	8.52	<3.00	11.12	0.03	39.63
4.	14/04/2022	SEE/AR/04/2022/0304	40.73	17.47	<3.00	7.22	0.05	59.17
5.	18/04/2022	SEE/AR/04/2022/0348	49.09	11.93	<3.00	9.54	0.03	63.08
6.	21/04/2022	SEE/AR/04/2022/0390	33.58	18.84	<3.00	<6.00	0.03	52.81
7.	25/04/2022	SEE/AR/04/2022/0425	54.66	27.45	<3.00	6.42	0.05	84.26
8.	28/04/2022	SEE/AR/04/2022/0470	32.97	13.35	3.48	<6.00	0.06	47.24
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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1) Akash Patilade

2) Dipali Sawant

Analyzed by

Varsha Pole  
Reviewed by

Anantdeep 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- CEIS 121(SR NO.01-DTB-2017)	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3771	24/09/2021	23/09/2022

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



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ISO 9001

ISO 14001

Lab accredited by MoEF & CC Maharashtra to IS:112823 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	32.2	Average Humidity (%)	64	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	215	Longitude	E 73°50'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0081	62.28	28.69	7.73	10.02	0.06	92.30
2.	07/04/2022	SEE/AR/04/2022/0159	50.10	22.75	<3.00	<6.00	0.07	73.23
3.	11/04/2022	SEE/AR/04/2022/0219	38.61	9.27	3.63	14.76	0.03	48.62
4.	14/04/2022	SEE/AR/04/2022/0305	30.04	16.97	5.88	9.41	0.05	48.70
5.	18/04/2022	SEE/AR/04/2022/0349	53.04	20.00	<3.00	7.38	0.06	75.93
6.	21/04/2022	SEE/AR/04/2022/0391	56.28	22.66	<3.00	9.02	0.07	82.06
7.	25/04/2022	SEE/AR/04/2022/0426	43.05	16.34	<3.00	<6.00	0.03	60.43
8.	28/04/2022	SEE/AR/04/2022/0471	30.52	12.39	<3.00	<6.00	0.05	43.52
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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1) Akash Pattade

2) Dipali Sawant

Analyzed by

Varsha Pole  
Reviewed by

Arundeep 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 (SR NO. 1456-DT0-2009)	LES-CCL/FF/MF/SC/1157	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 299-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3400	15/07/2021	14/07/2022

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



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LINE 11/1/11

LINE 11/1/11

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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	31.7	Average Humidity (%)	63	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.3	Average Wind direction (Deg)	232	Longitude	E 73°46'21.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0082	67.08	18.34	<3.00	11.43	0.03	85.92
2.	07/04/2022	SEE/AR/04/2022/0160	36.01	17.22	<3.00	<6.00	0.06	54.06
3.	11/04/2022	SEE/AR/04/2022/0220	38.03	11.35	<3.00	12.99	0.05	61.66
4.	14/04/2022	SEE/AR/04/2022/0306	34.89	18.09	5.50	<6.00	0.07	53.36
5.	18/04/2022	SEE/AR/04/2022/0350	27.07	10.85	<3.00	6.02	0.06	38.93
6.	21/04/2022	SEE/AR/04/2022/0392	48.00	12.48	<3.00	8.60	0.05	63.10
7.	25/04/2022	SEE/AR/04/2022/0427	38.70	20.33	<3.00	7.06	0.06	59.84
8.	28/04/2022	SEE/AR/04/2022/0472	20.53	6.86	<3.00	<6.00	0.03	27.71
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/ m<sup>3</sup></b>	<b>µg/ m<sup>3</sup></b>	<b>µg/ m<sup>3</sup></b>	<b>µg/ m<sup>3</sup></b>	<b>mg/ m<sup>3</sup></b>	<b>µg/ m<sup>3</sup></b>
<b>Method</b>			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 V)

#### \*NATIONAL AMBIENT AIR STANDARDS (2009)

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1) Akash Patil  
2) Dipail Sawant  
Analyzed by

Varsha Pole  
Reviewed by

Arundeep 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 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1152	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3401	15/07/2021	14/07/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015

ISO 14001

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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	32.2	Average Humidity (%)	63	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	224	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0083	78.77	27.78	4.74	11.73	0.06	108.37
2.	07/04/2022	SEE/AR/04/2022/0161	34.64	11.39	<3.00	<6.00	0.03	46.70
3.	11/04/2022	SEE/AR/04/2022/0221	53.05	16.84	3.93	14.53	0.05	71.45
4.	14/04/2022	SEE/AR/04/2022/0307	32.78	10.81	6.49	9.21	0.05	44.96
5.	18/04/2022	SEE/AR/04/2022/0351	43.65	19.79	<3.00	10.43	0.07	64.71
6.	21/04/2022	SEE/AR/04/2022/0393	56.56	13.76	<3.00	<6.00	0.08	72.52
7.	25/04/2022	SEE/AR/04/2022/0428	40.69	19.84	<3.00	<6.00	0.05	62.75
8.	28/04/2022	SEE/AR/04/2022/0473	32.40	11.31	4.04	12.08	0.05	56.45
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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)

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

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2) Dipali Sawant

Analyzed by

V. Chopdekar

Varsha Pole

Reviewed by

Arundeeep 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 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 03-DTA-2017)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1107	15/07/2021	14/07/2022

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



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SEEPL/117/11  
 QMS 1.04

Lab accredited by MoEF & CC Mafli up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	62	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	241	Longitude	E 73°46'00.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0084	45.56	14.85	5.59	11.85	0.05	61.19
2.	07/04/2022	SEE/AR/04/2022/0162	16.29	7.49	<3.00	<6.00	0.03	26.05
3.	11/04/2022	SEE/AR/04/2022/0222	54.49	20.38	3.35	6.98	0.07	76.09
4.	14/04/2022	SEE/AR/04/2022/0308	40.15	8.32	<3.00	7.48	0.06	48.75
5.	18/04/2022	SEE/AR/04/2022/0352	35.73	9.19	<3.00	7.68	0.03	45.39
6.	21/04/2022	SEE/AR/04/2022/0394	43.40	18.80	<3.00	<6.00	0.05	62.50
7.	25/04/2022	SEE/AR/04/2022/0429	34.18	13.51	<3.00	6.39	0.06	48.98
8.	28/04/2022	SEE/AR/04/2022/0474	21.85	7.82	<3.00	<6.00	0.06	30.27
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	-
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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
- : This certificate may not be reproduced in part, without the permission of this laboratory.
- : 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

Vishal Pole  
 Varsha Pole  
 Reviewed by

Anandjeep 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 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3402	15/07/2021	14/07/2022

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



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SPM/LOTT/1  
SPM/LOTT

(As Accredited) by MoEF & CC Valid up to 03.11.2024 & Certified by ISO 9001:2015 & ISO 45001:2018.

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEFPI /L/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Dingna(Maharashtra State)(M-A2)				
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	64	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	264	Longitude	E 73°49'20.5"
Instruments Used	EPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0085	25.60	10.40	4.87	11.18	0.03	37.11
2.	07/04/2022	SEE/AR/04/2022/0163	13.29	9.48	<3.00	<6.00	0.05	23.10
3.	11/04/2022	SEE/AR/04/2022/0223	25.98	8.19	<3.00	12.46	0.06	35.01
4.	14/04/2022	SEE/AR/04/2022/0309	51.35	16.84	5.18	2.64	0.07	70.57
5.	18/04/2022	SEE/AR/04/2022/0353	42.69	17.71	<3.00	9.67	0.05	45.09
6.	21/04/2022	SEE/AR/04/2022/0395	36.77	11.10	<3.00	<6.00	0.03	48.17
7.	25/04/2022	SEE/AR/04/2022/0430	30.25	8.94	<3.00	<6.00	0.05	39.82
8.	28/04/2022	SEE/AR/04/2022/0475	38.13	12.48	<3.00	<6.00	0.06	51.07
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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) Akash Pattada  
2) Dipali Sawant  
Analyzed by

*(Signature)*

*(Signature)*  
Varsha Pole  
Reviewed by

*(Signature)*  
Anandjeep 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 (SR NO. 1461-DTD-2009)	LES-CCL/FF/MF/SC/1154	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 381-DTD-2016)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3399	15/07/2021	14/07/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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SEE/01/2022  
 DATE LIVE

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	April 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	31.9	Average Humidity (%)	64	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	226	Longitude	E 73°50'48.0"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	04/04/2022	SEE/AR/04/2022/0006	35.19	15.14	5.08	9.52	0.05	51.30
2.	07/04/2022	SEE/AR/04/2022/0164	26.01	19.29	<3.00	<6.00	0.06	45.44
3.	11/04/2022	SEE/AR/04/2022/0224	42.25	13.35	<3.00	9.71	0.03	58.33
4.	14/04/2022	SEE/AR/04/2022/0310	35.13	14.93	3.71	<6.00	0.06	51.00
5.	18/04/2022	SEE/AR/04/2022/0354	41.01	15.09	<3.00	6.99	0.05	56.60
6.	21/04/2022	SEE/AR/04/2022/0396	46.72	9.81	4.24	<6.00	0.03	57.67
7.	25/04/2022	SEE/AR/04/2022/0431	36.88	12.64	<3.00	<6.00	0.07	50.18
8.	28/04/2022	SEE/AR/04/2022/0476	27.50	9.11	<3.00	<6.00	0.05	36.97
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 08)	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) Akash Pattade  
 2) Dipali Sawant  
 Analyzed by

Varsha Pole  
 Reviewed by

Anandjeep 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 BL(SR NO.1719-DTI-2012)	LES-CCL/FF/MF/SC/1153	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 105-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

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



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SPM/10/11  
SEE/104

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/04/2022/0399	Date of Issue	26/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	21/04/2022	Temperature(°C)	28.2	Humidity (%)	66
Analysis Started On	25/04/2022	Analysis Completed On	26/04/2022		


## AMBIENT AIR LOCATION

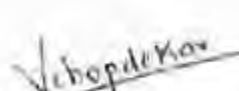
Location of ambient air station	Shemecheadvan Boundary (Goa State)
Instruments Used	Organic Vapour Sampler


## 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.  
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Susmita Kapdoskar  
Analyzed by

  
Varsha Pole  
Reviewed by

  
Anandhep Sawant  
Authorized Signatory

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Accredited By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 867 (E)

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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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015

ISO 14001

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## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/04/2022/0398	Date of Issue	26/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	21/04/2022	Temperature(°C)	28.2	Humidity (%)	56
Analysis Started On	25/04/2022	Analysis Completed On		26/04/2022	

## AMBIENT AIR LOCATION

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

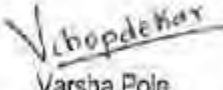
**Note :** Test results related only to the sample tested.

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

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Susmita Kapdoskar  
Analyzed by

  
Varsha Pole  
Reviewed by

  
Anandeeep Sawant  
Authorized Signatory

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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



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STATE LETTER  
SPW/104

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/04/2022/0397	Date of Issue	28/04/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	21/04/2022	Temperature(°C)	28.2	Humidity (%)	66
Analysis Started On	25/04/2022	Analysis Completed On	26/04/2022		

## AMBIENT AIR LOCATION

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 13

- 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*  
Susmita Kapdoskar  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed by

*Arvind Sawant*  
Arvind 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	E/FF/3523	18/02/2022	17/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/307, Plot No. 01, Hubli Estate, Res. Nagar, Waran, Aite, Old Seem Road, Bindez, Porvoin, Panaji-Goa-403 101.  
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ISO 9001  
ISO 14001

Lab accredited by MAFEP & CO Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## WORKPLACE NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/04/2022/0165-0170	Date of Issue	11/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Date of Sampling	07/04/2022		

### Chemical Testing – Atmospheric Pollution

Sr. No.	Report No.	Sampling Location (From 1.0 meter off)	Noise in dB (A)
			Day Time
01.	SEE/AR/04/2022/0165	PTB (Level-0)	73.7
02.	SEE/AR/04/2022/0166	PTB (Level-2)	77.1
03.	SEE/AR/04/2022/0167	Hot Mix Plant	79.5
04.	SEE/AR/04/2022/0168	HEMM (Surface Minor)	81.1
05.	SEE/AR/04/2022/0169	PTW (Paver with Compaction)	79.8
06.	SEE/AR/04/2022/0170	Screener (2000 CH-LHS)	77.9

- Occupational Exposure Limit for noise as per OSHA is 90dB (A) TWA (8hrly).
- \*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is the energy mean of the noise level over a specified period.

**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.

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

Sanjivan Gawas  
Monitored by

Varsha Pole  
Reviewed by

Anand Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. A/56, Road No. 16, Klean Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 401 004, Maharashtra State, India.  
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Gauged by Ministry of Environment, Forest & Climate Change, Govt of India, E.O. 167 (I)

BRANCH OFF. : 310, Dempo Towers, EDC Pats, Panaji-403 001, Goa State, India ☎ : (0832) 2437040 / 2437104  
E-mail : [sadekarenviro@rediffmail.com](mailto:sadekarenviro@rediffmail.com) • Website : [www.sadekarenviro.com](http://www.sadekarenviro.com) • CIN - U45201MH1998PTC116579

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/346	18/07/2021	18/07/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-302/207, Plot No. 89, Patel Estate, Reta Marg, Veron, Ato, Old Buller Road, Bantol, Panvel, Puna (Goa-403 101),  
Goa State, India. (T) : (0832) 243322 / 243323 • E-mail : satekar@gov@rediffmail.com

CRR-1000001  
SDEPL-100

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NOISE LEVEL MONITORING REPORT			
Report No.	SEE/AR/04/2022/0225-0226, 0338, 0242, 0312, 0324, 0311, 0359, 0358, 0325, 0361, 0362	Date of Issue	27/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		
Sampling Plan	SEEPLD/FMT- 64	Sampling Procedure No.	SEEPL/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>
1.	11/04/2022	SEE/AR/04/2022/0225	G-N1	I	Mopa Boundary	35.0	78.7	52.8	34.5	65.0	53.8
2.	11/04/2022	SEE/AR/04/2022/0226	G-N2	I	Shamechaadvan Boundary	34.9	85.4	60.3	30.0	74.1	54.7
3.	17/04/2022	SEE/AR/04/2022/0338	G-N3	C	Nagzar	40.1	75.7	58.4	30.0	68.5	49.4
4.	12/04/2022	SEE/AR/04/2022/0242	G-N4	R	Purva Casarvanem	31.1	62.1	49.6	30.0	60.9	39.9
5.	14/04/2022	SEE/AR/04/2022/0312	G-N5	R	Chandel	30.0	61.4	47.2	30.3	54.6	39.2
6.	16/04/2022	SEE/AR/04/2022/0324	G-N6	R	Khajne Amers Porscodem	30.0	74.3	48.0	30.0	63.3	39.6
7.	14/04/2022	SEE/AR/04/2022/0311	G-N7	R	Warkhand	32.0	89.5	46.6	31.7	53.8	39.5
8.	19/04/2022	SEE/AR/04/2022/0359	G-N8	C	Rajvi Wada Torxem	40.4	65.7	54.8	33.5	67.9	47.2
9.	19/04/2022	SEE/AR/04/2022/0358	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	34.2	74.5	58.6	30.0	60.4	49.5
10.	16/04/2022	SEE/AR/04/2022/0325	M-N1	R	Salarda	30.0	72.6	48.9	30.0	53.6	39.9
11.	20/04/2022	SEE/AR/04/2022/0361	M-N2	R	Elingha	30.0	59.9	47.7	30.0	60.3	38.6
12.	20/04/2022	SEE/AR/04/2022/0362	M-N3	R	Isarda	30.0	69.6	48.1	30.0	58.8	39.1

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

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

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

> 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) Leq denotes the time weighted average of the level of sound in decibels on scale A which is referable to human hearing. A 'decibel' is a unit in which noise is measured.

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

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

Sarwan Gawas  
Monitored by

V. Sadekar  
Vardha Pola  
Reviewed by

Agandeep Sawant  
Authorized Signatory

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	IFS-ECL/MECH/SLM/346	18/07/2021	18/07/2022

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/347	18/07/2021	18/07/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by MOEF & CC Ward up to DL 11 2073 • Certified by ISO 9001:2015 & ISO 45001:2018

SEE/EE/11/07  
 2022/04

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/326	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass bottles	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.75	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.52	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	96.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	150.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl	15.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub>	5.93	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sub>2</sub> F
11.	Total Hardness as CaCO <sub>3</sub>	84.00	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. Shreya Harmalkar  
 2. Anisha Parab  
 Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*V. Chopdekar*  
 Varsha Pole  
 Reviewed By



*Anandjeep Sawant*  
 Anandjeep Sawant  
 Authorized Signatory



Report No.	SEE/04/2022/326	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F.D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B.C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	15.23	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> 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	11.21	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	0.15	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	9.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	7.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by



Varsha Pole  
Reviewed By

Amrdeep Sawant  
Authorized Signatory





Report No.	SEE/04/2022/326	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Shreya Harmalkar

2. Anisha Parab

Analyzed by

*[Signature]*  
*[Signature]*

*[Signature]*

Varsha Pole

Reviewed By

*[Signature]*

Amarjeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2021/08/236	26/08/2021	26/08/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015

ISO 14001

Lab Accredited by MoEF & CC Water for 16-03-11-2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/327	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.10	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.69	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	80.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	142.00	mg/lit	500.00	IS 3025 (Part 18)
8.	Chlorides as Cl <sup>-</sup>	14.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	82.00	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. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*Varsha Pole*  
Reviewed By

*Anandeep Sawant*  
Authorized Signatory



Report No.	SEE/04/2022/327	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal Analysis

20.	Aluminum 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	17.63	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> 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	9.22	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	0.12	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	10.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	8.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*Vehopdekar*  
Varsha Pole  
Reviewed By

*Anandjeep Sawant*  
Anandjeep Sawant  
Authorized Signatory



Report No.	SEE/04/2022/327	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	Ms. Megawida Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Anisha Parab*

*V. Chopalekar*  
Varsha Pole  
Reviewed By

Anandeeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2021/08/236	26/08/2021	26/08/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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STATE LICENSE  
GWA/L/11

Lab accredited by MoEF & CC Water up to 03/11/2023 • Certified by ISO 9001:2015 & ISO 15001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/328	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.32	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.29	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	24.00	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 Cl <sup>-</sup>	16.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	30.00	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. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

V. Sadekar  
Varsha Pole  
Reviewed By

Anandeeep Sawant  
Authorized Signatory



Report No.	SEE/04/2022/328	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	6.40	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.03	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	3.41	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Aparajit Sawant*  
Aparajit Sawant  
Authorized Signatory



Report No.	SEE/04/2022/328	Issue Date	20/04/2022
Order / Reference	As per dated 14/04/2022	Sample Received On	14/04/2022
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*Varsha Pole*  
Reviewed By

*Anandeepp Sawant*  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2021/08/236	26/08/2021	26/08/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/08/2021	26/06/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Goa State, India ☎ (0832) 2411322 / 2411323 • E-mail : sadekar@rediffmail.com  
Lab accredited by NABL (CO-046) up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018.

QMS (CERT)  
QMS (LAB)

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/329	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	V.N.C Colony			
Sample details	Drinking Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Anandjeep Sawant*  
Anandjeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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 Lab. Accredited by MoEF & CC (Valid up to 03.11.2023) • Certified by ISO 9001:2015 & ISO 45001:2018

CPWA License  
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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/309	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	R.R. Canteen			
Sample details	Drinking Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
 Anisha Parab  
 Analyzed by

*Varsha Pole*  
 Varsha Pole  
 Reviewed By

*Ananddeep Sawant*  
 Ananddeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C.)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
ISO 14001:2015

Lab. accredited by MAF & DCC, Govt. of India No. 03/11/2003 & Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/330	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling point	K.M.V Colony			
Sample details	Drinking Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B
2	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Arundeep Sawant*  
Arundeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/307, Plot No. 01, Palal Estate, Bala Nagar, Vasant, Aha, Old Durgam Road, Bandra, Phoenix, Parnali-Goa-403 101,  
 Goa State, India. ☎ : (0832) 2437322 / 2437323 • E-mail : satekar@rediffmail.com  
 Lab accredited by MoEF & CC (Moi) up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

GPWF CERTIFIED  
 S/Water Lab

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/331	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested

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*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ananddeep Sawant*  
Ananddeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070.	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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OFFICE  
MUMBAI

ISO 9001:2015 Certified by BUREAU VERITAS

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/332	Issue Date	20/04/2022	
Name of Client	M/s. Megawide Construction DMCC G/o GMR Goa International Airport Limited			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	L.S.C. Colony			
Sample details	Drinking Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Amandeep Sawant*  
Amandeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	25/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	25/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	25/08/2021	26/08/2022
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 94, Patel Estate, Near Nager, Varad, Aha, Old Belim Road, Hinder, Porvoto, Panaji-403 101  
 Goa State, India. (T) : (0832) 2411322 / 2411323 • E-mail : sadekar@rediffmail.com  
 Lab accredited by MOEF & CD V&M (C.I.) 03 11 2020 • Certified by ISO 9001:2015 & ISO 45001: 2018

DATE: 20/04/22  
 TIME: 11:00

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/322	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	5.70	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	960.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	250.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	267.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	15.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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*Mugdha Gawade*  
 Mugdha Gawade  
 Analyzed By

*Varsha Pole*  
 Varsha Pole  
 Reviewed By

*Anandeeep Sawant*  
 Anandeeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	COD Digester	Q/019	E2021/05/015	28/05/2021	28/05/2022
03.	BOD incubator	Q/002	E2021/05/014	28/05/2021	28/05/2022
04.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 01, Parcel Estate, Ravi Nagar, Varan, A/c, Old Bolim Road, Bardez, Porvalem, Panaji-Goa-409 101,  
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ISO 9001  
CERTIFIED

(Lab. Accredited by MOEF & CPCB year up to 03.11.2022 • Certified by ISO 9001:2015 & ISO 45001:2018)

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/323	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.53	-	5.5 - 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+B
2.	Chemical Oxygen Demand (COD)	164.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	22.91	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	55.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	6.20	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

Note: Test results related only to the sample tested.

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*Mugdha*  
Mugdha Gawade  
Analyzed By

*V. Pole*  
Varsha Pole  
Reviewed By

*A. Sawant*  
Amardeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	COD Digester	Q/019	E2021/05/015	28/05/2021	28/05/2022
03.	BOD incubator	Q/002	E2021/05/014	28/05/2021	28/05/2022
04.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by MEF, E.O Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

MSL-02585  
SPP-119

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/324	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.20	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	512.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	119.88	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	64.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	8.80	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-C & G

Note: Test results related only to the sample tested.

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*Asmita Sawant*  
Asmita Sawant  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Arundeep Sawant*  
Arundeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	COD Digester	Q/019	E2021/05/015	28/05/2021	28/05/2022
03.	BOD Incubator	Q/002	E2021/05/014	28/05/2021	28/05/2022
04.	Hot Air Oven	Q/039	T2021/06/017	28/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. B1, Fetal Estate, Hira Mega, Verna, Ato, Old Bafin Road, Bardo, Porvora, Panaji-Goa-403 101  
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Lab accredited by NABL & QC Valid up to 30-11-2023 \* Verified by ISO 9001:2015 & ISO 45001:2018

SWA/LEVER  
SME/UC

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2022/325	Issue Date	20/04/2022	
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 14/04/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/ID/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	14/04/2022	
Sample Collected by	SEEPL Representative	Sample Received On	14/04/2022	
Analysis Started On	14/04/2022	Analysis Completed On	20/04/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.92	-	5.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	40.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> 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)	14.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.80	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Ammonia	2.80	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B-C
7.	Total Nitrogen ( as N)	7.87	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	31	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E
----	--	----	-----------------	-----	--

Note: Test results related only to the sample tested.

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

1. Asmita Sawant  
2. Anisha Parab  
Analyzed By

Varsha Pole  
Reviewed By

Ananddeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022
03.	COD Digester	Q/019	E2021/05/015	28/05/2021	28/05/2022
04.	BOD incubator	Q/002	E2021/05/014	28/05/2021	28/05/2022
05.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SEEPL/01/07

MM/1/18

Lab Accredited by MoEF & CC, Valid up to 03/11/2024 • Certified by ISO 9001:2015 & ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Mopa Boundary (Goa State) (G-A1)				
Average Ambient Temperature (°C)	31.9	Average Humidity (%)	68	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	213	Longitude	E 73°56'32.4"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0009	56.18	26.86	4.31	10.04	0.07	85.31
2.	05/05/2022	SEE/AR/05/2022/0134	64.08	22.62	3.30	6.46	0.08	80.48
3.	09/05/2022	SEE/AR/05/2022/0196	87.45	36.22	5.70	13.05	0.09	134.44
4.	12/05/2022	SEE/AR/05/2022/0250	34.85	11.39	<3.00	<6.00	0.05	47.13
5.	16/05/2022	SEE/AR/05/2022/0344	85.30	27.69	4.01	8.43	0.10	141.67
6.	19/05/2022	SEE/AR/05/2022/0431	84.76	33.56	4.74	9.04	0.08	137.51
7.	23/05/2022	SEE/AR/05/2022/0513	60.74	11.89	3.83	10.98	0.09	75.39
8.	26/05/2022	SEE/AR/05/2022/0561	86.58	29.57	6.65	11.22	0.11	123.06
9.	30/05/2022	SEE/AR/05/2022/0627	75.83	23.74	6.38	11.35	0.07	103.36
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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
- : This certificate may not be reproduced in part, without the permission of this laboratory.
- : 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) Dipali Sawant  
Analyzed by

Varsha Pole  
Reviewed by



Anandeev Sawant  
Authorized Signatory

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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.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 991-DT1-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

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



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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemeshchavan Boundary(Goa State) (G-A2)				
Average Ambient Temperature (°C)	31.6	Average Humidity (%)	69	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	232	Longitude	E 73°49'21.5"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0010	32.63	19.71	5.88	9.04	0.03	53.56
2.	05/05/2022	SEE/AR/05/2022/0135	44.84	18.21	3.53	<6.00	0.06	64.31
3.	09/05/2022	SEE/AR/05/2022/0197	53.63	22.37	6.66	10.92	0.05	78.47
4.	12/05/2022	SEE/AR/05/2022/0251	21.84	16.47	<3.00	<6.00	0.03	39.14
5.	16/05/2022	SEE/AR/05/2022/0345	37.76	19.59	<3.00	8.77	0.07	67.18
6.	19/05/2022	SEE/AR/05/2022/0432	68.13	21.37	3.88	12.93	0.06	91.57
7.	23/05/2022	SEE/AR/05/2022/0514	48.83	18.34	<3.00	8.19	0.08	68.62
8.	26/05/2022	SEE/AR/05/2022/0562	41.57	24.28	4.01	14.07	0.07	67.92
9.	30/05/2022	SEE/AR/05/2022/0628	50.87	21.79	6.55	14.47	0.05	75.03
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/AR/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



Ananddeep 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 BL(SR NO.2028-DTD-2016)	LES-CCL/FF/MF/SC/1146	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 992-DT1-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



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SHRILAKSHMI

SW/01/01

Lab accredited by MAF & EC Valid up to 03-11-2025 • Certified by ISO 9001:2015 & ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	31.2	Average Humidity (%)	70	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	225	Longitude	E 73°53'14.22"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0011	36.31	19.05	<3.00	7.51	0.07	61.28
2.	05/05/2022	SEE/AR/05/2022/0136	35.18	17.42	<3.00	8.15	0.06	56.79
3.	09/05/2022	SEE/AR/05/2022/0198	45.24	20.46	4.89	9.56	0.08	66.87
4.	12/05/2022	SEE/AR/05/2022/0252	31.36	14.26	<3.00	<6.00	0.05	46.16
5.	16/05/2022	SEE/AR/05/2022/0346	76.55	30.98	4.48	7.71	0.06	114.44
6.	19/05/2022	SEE/AR/05/2022/0433	55.34	21.75	4.13	10.08	0.03	79.87
7.	23/05/2022	SEE/AR/05/2022/0515	30.37	28.61	<3.00	13.09	0.07	60.59
8.	26/05/2022	SEE/AR/05/2022/0563	40.38	25.37	4.11	11.92	0.05	67.15
9.	30/05/2022	SEE/AR/05/2022/0629	74.73	20.17	5.89	10.98	0.06	99.02
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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.

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V. Chopdekar  
Varsha Pole  
Reviewed by



Ananddeep Sawant  
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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. 1902-DTJ-2014)	LES-CCL/FF/MF/SC/1148	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3771	24/09/2021	23/09/2022

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



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ISO 9001:2015  
ISO 14001

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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	31.3	Average Humidity (%)	65	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	241	Longitude	E 73°50'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0012	37.80	10.44	3.90	7.43	0.05	50.10
2.	05/05/2022	SEE/AR/05/2022/0137	43.15	21.08	<3.00	6.46	0.06	64.84
3.	09/05/2022	SEE/AR/05/2022/0199	57.84	20.38	4.55	10.34	0.07	80.65
4.	12/05/2022	SEE/AR/05/2022/0253	30.17	11.10	3.29	<6.00	0.03	41.75
5.	16/05/2022	SEE/AR/05/2022/0347	49.64	29.11	4.24	8.03	0.06	82.69
6.	19/05/2022	SEE/AR/05/2022/0434	43.02	16.51	5.78	9.59	0.05	59.91
7.	23/05/2022	SEE/AR/05/2022/0516	36.07	24.20	<3.00	14.71	0.03	62.80
8.	26/05/2022	SEE/AR/05/2022/0564	57.84	30.19	3.52	13.58	0.07	91.95
9.	30/05/2022	SEE/AR/05/2022/0630	55.30	20.42	4.92	9.55	0.05	77.16
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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.

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2) Dipali Sawant  
**Analyzed by**

*Varsha Pole*  
Varsha Pole  
**Reviewed by**



*Ananddeep Sawant*  
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**Authorized Signatory**

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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. 1456-DTD-2009)	LES-CCL/FF/MF/SC/1157	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 299-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3400	15/07/2021	14/07/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT 114)	20/11/2021	19/11/2022



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SW-11031  
SVE-001

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porcodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.9	Average Humidity (%)	68	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	216	Longitude	E 73°46'21.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0013	21.60	10.47	<3.00	9.12	0.05	32.71
2.	05/05/2022	SEE/AR/05/2022/0138	55.46	23.58	3.86	<6.00	0.07	79.92
3.	09/05/2022	SEE/AR/05/2022/0200	46.96	17.96	3.83	9.02	0.06	66.97
4.	12/05/2022	SEE/AR/05/2022/0254	79.10	18.85	<3.00	<6.00	0.03	40.18
5.	16/05/2022	SEE/AR/05/2022/0348	38.14	12.72	3.00	<6.00	0.05	52.26
6.	19/05/2022	SEE/AR/05/2022/0435	88.08	27.45	5.05	7.79	0.07	119.93
7.	23/05/2022	SEE/AR/05/2022/0517	39.18	14.47	<3.00	11.34	0.03	54.18
8.	26/05/2022	SEE/AR/05/2022/0565	62.04	21.83	4.61	14.83	0.05	86.59
9.	30/05/2022	SEE/AR/05/2022/0631	44.76	17.59	<3.00	6.51	0.06	63.42
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			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  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed by



*Apurdeep Sawant*  
Apurdeep 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 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1152	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR.No. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3401	15/07/2021	14/07/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015

ISO 14001:2015

Lab accredited by MoEF & CC Valid up to 30.11.2023 & Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	31.1	Average Humidity (%)	69	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	232	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM-411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0014	46.30	16.88	4.43	7.66	0.08	64.08
2.	05/05/2022	SEE/AR/05/2022/0139	40.14	25.45	<3.00	7.10	0.05	67.97
3.	09/05/2022	SEE/AR/05/2022/0201	54.88	23.87	7.38	11.56	0.03	80.97
4.	12/05/2022	SEE/AR/05/2022/0255	33.26	9.81	<3.00	<6.00	0.06	43.64
5.	16/05/2022	SEE/AR/05/2022/0349	57.73	21.50	4.66	8.79	0.05	81.60
6.	19/05/2022	SEE/AR/05/2022/0436	54.86	20.71	5.36	10.33	0.05	76.89
7.	23/05/2022	SEE/AR/05/2022/0518	33.11	13.68	<3.00	15.28	0.03	48.39
8.	26/05/2022	SEE/AR/05/2022/0566	40.99	23.41	8.09	±1.60	0.06	65.63
9.	30/05/2022	SEE/AR/05/2022/0632	45.45	19.21	4.57	11.08	0.05	66.05
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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) Dipal Sawant  
Analyzed by

*V. Chopdekar*  
Varsha Pole  
Reviewed by



*Arunkeep Sawant*  
Arunkeep Sawant  
Authorized Signatory

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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 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 03-DTA-2017)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1107	15/07/2021	14/07/2022

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



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ISO 9001:2015  
ISO 14001:2015

Lab accredited by NABL & CC Valid up to 31.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Sataria(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	68	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	216	Longitude	E 73°46'00.2"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0015	29.51	14.64	4.27	8.09	0.05	45.17
2.	05/05/2022	SEE/AR/05/2022/0140	38.76	15.76	<3.00	<6.00	0.03	56.67
3.	09/05/2022	SEE/AR/05/2022/0202	34.98	9.02	<3.00	6.15	0.06	46.16
4.	12/05/2022	SEE/AR/05/2022/0256	17.94	7.98	<3.00	<6.00	0.03	26.66
5.	16/05/2022	SEE/AR/05/2022/0350	36.16	19.79	<3.00	7.95	0.05	55.96
6.	19/05/2022	SEE/AR/05/2022/0437	53.64	22.21	<3.00	11.43	0.06	77.03
7.	23/05/2022	SEE/AR/05/2022/0519	23.22	8.73	<3.00	11.89	0.03	32.63
8.	26/05/2022	SEE/AR/05/2022/0567	38.30	21.58	4.64	8.95	0.07	60.84
9.	30/05/2022	SEE/AR/05/2022/0633	49.63	15.34	<3.00	8.69	0.05	65.65
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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) Dipal Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
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*Ananddeep Sawant*  
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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. 1898-DTJ-2014)	LES-CCL/FF/MF/SC/1150	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3402	15/07/2021	14/07/2022

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



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SI No. 121003  
S/W/0001

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Dingna(Maharashtra State)(M-A2)					
Average Ambient Temperature (°C)	31.7	Average Humidity (%)	70	Latitude	N 15°46'12.3"	
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	236	Longitude	E 73°49'20.5"	
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)					

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0016	52.82	17.13	3.58	<6.00	0.05	70.37
2.	05/05/2022	SEE/AR/05/2022/0141	32.32	14.51	<3.00	8.55	0.03	47.31
3.	09/05/2022	SEE/AR/05/2022/0203	38.38	19.09	6.37	11.28	0.06	57.90
4.	12/05/2022	SEE/AR/05/2022/0257	20.41	10.73	<3.00	<6.00	0.05	31.35
5.	16/05/2022	SEE/AR/05/2022/0351	52.85	29.57	<3.00	6.51	0.03	83.50
6.	19/05/2022	SEE/AR/05/2022/0438	62.86	22.83	3.99	13.04	0.06	86.76
7.	23/05/2022	SEE/AR/05/2022/0520	39.48	12.23	<3.00	16.78	0.05	52.51
8.	26/05/2022	SEE/AR/05/2022/0568	43.55	18.26	<3.00	12.08	0.03	62.83
9.	30/05/2022	SEE/AR/05/2022/0634	39.70	14.60	7.45	11.30	0.06	55.13
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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  
Analyzed by

Varsha Pole  
Reviewed by



Ananddeep 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- CEIS 121(SR NO.01-DTB-2017)	LE5-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	LIV	In House Calibration

Fine Particulate Sampler (SR NO. 110-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/3540	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



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SANCTIONED  
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Lab Accredited by NABL & ISO 17025 up to 01.11.2023 • Certified by (ISO 9001) 19015 & ISO 45001 - 2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	May 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	71	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.3	Average Wind direction (Deg)	242	Longitude	E 73°50'48.0"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/05/2022	SEE/AR/05/2022/0017	34.46	26.95	3.38	7.44	0.03	62.20
2.	05/05/2022	SEE/AR/05/2022/0142	31.78	16.84	<3.00	<6.00	0.05	68.79
3.	09/05/2022	SEE/AR/05/2022/0204	22.67	20.87	<3.00	6.06	0.06	43.73
4.	12/05/2022	SEE/AR/05/2022/0258	25.71	18.30	<3.00	<6.00	0.05	44.39
5.	16/05/2022	SEE/AR/05/2022/0352	54.11	30.36	3.10	9.27	0.07	87.96
6.	19/05/2022	SEE/AR/05/2022/0439	34.75	14.39	<3.00	<6.00	0.03	49.88
7.	23/05/2022	SEE/AR/05/2022/0521	32.77	10.94	<3.00	14.33	0.05	45.43
8.	26/05/2022	SEE/AR/05/2022/0569	46.59	26.90	6.95	11.94	0.06	73.77
9.	30/05/2022	SEE/AR/05/2022/0635	49.96	22.70	5.01	12.11	0.07	72.90
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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

Ananddeep Sawant

Authorized Signatory

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Sanctioned by Ministry of Environment, Forest & Climate Change, Govt of India, S.O. 857 (ii)

BRANCH OFF.

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E-mail : sate@goa.sadekar.com • Website : www.sadekarenviro.com • CIN : UMS200MH1008PTC-118371

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 BL(SR NO.2024-DTD-2016)	LES-CCL/FF/MF/SC/1144	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 105-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
ISO 14001

Lab Accredited by MAF & ICM Valid up to 03/11/2022 • Certified by ISO 9001:2015 & ISO 14001:2015

## NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/05/2022/0259-0260, 0289-0290, 0354, 0358, 0353, 0536, 0527, 0399, 0528, 0537	Date of Issue	30/05/2022
Name of Client	M/s. Megawide Construction DMDC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		
Sampling Plan	SEEPL/D/FMT-54	Sampling Procedure No.	SEEPL/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	12/05/2022	SEE/AR/05/2022/0259	G-N1	I	Mopa Boundary	30.1	76.4	58.4	30.3	65.3	53.7
2.	12/05/2022	SEE/AR/05/2022/0260	G-N2	I	Shernicheadvan Boundary	31.1	78.3	62.5	31.0	73.1	59.6
3.	15/05/2022	SEE/AR/05/2022/0289	G-N3	C	Nagzar	30.0	72.5	58.7	31.4	55.2	47.0
4.	15/05/2022	SEE/AR/05/2022/0290	G-N4	R	Purva Casarvamam	32.3	60.2	48.3	30.0	63.1	39.5
5.	18/05/2022	SEE/AR/05/2022/0354	G-N5	R	Chandel	30.3	62.7	47.1	30.0	61.7	38.9
6.	18/05/2022	SEE/AR/05/2022/0398	G-N6	R	Khajre Amare Porsodam	33.4	70.1	45.6	30.0	61.3	37.7
7.	18/05/2022	SEE/AR/05/2022/0353	G-N7	R	Warkhand	30.5	71.5	47.3	30.0	53.7	38.2
8.	25/05/2022	SEE/AR/05/2022/0538	G-N8	C	Rajvil Wada Toxem	32.2	79.9	50.2	34.1	63.4	45.6
9.	24/05/2022	SEE/AR/05/2022/0527	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvern	33.2	74.2	53.1	30.6	58.5	44.8
10.	18/05/2022	SEE/AR/05/2022/0399	M-N1	R	Setarda	31.2	77.2	48.1	32.1	50.7	38.8
11.	24/05/2022	SEE/AR/05/2022/0528	M-N2	R	Dingna	30.0	76.1	47.9	30.0	60.2	37.5
12.	25/05/2022	SEE/AR/05/2022/0537	M-N3	R	Netarde	31.7	69.5	47.4	30.1	59.7	39.1

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

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

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

➤ 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) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing. A "decibel" is a unit in which noise is measured.

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

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

**Note :** Monitoring has been done as per GPOB 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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Sanjivan Gavvas  
Monitored by

V. Hopdekar  
Varsha Pole  
Reviewed by

Anand Deep Sawant  
Authorized Signatory

**HEAD OFF. & LAB :** Plot No. A 98, Road No. 18, Klean Nagar Road, M.L.C. Wagle Industrial Area, Thane - 400 604, Maharashtra, India.

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E-mail : sadetangoa@gmail.com • Website : www.sadetakarmviro.com • CIN - UMS200MH1998PTC-116378

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/346	18/07/2021	18/07/2022

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/347	18/07/2021	18/07/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 14001  
ISO 9001

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## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/05/2022/0205	Date of Issue	16/05/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEP/ Representative	Environmental condition of Lab			
Date of Sampling	09/05/2022	Temperature(°C)	28.1	Humidity (%)	65
Analysis Started On	12/05/2022	Analysis Completed On		16/05/2022	

## AMBIENT AIR LOCATION

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.  
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Susmita Kapdoskar  
Analyzed by

Varsha Pole  
Reviewed by

Ananddeep 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



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Lab accredited by MET & CO VARB up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001: 2018

ENVIRONMENTAL  
ANALYSIS

AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/05/2022/0206	Date of Issue	16/05/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	09/05/2022	Temperature(°C)	28.1	Humidity (%)	65
Analysis Started On	12/05/2022	Analysis Completed On	16/05/2022		

### AMBIENT AIR LOCATION

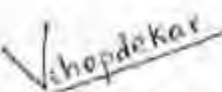
Location of ambient air station	HSD Bunk (inside Mopa Airport Premises)
Instruments Used	Organic Vapour Sampler

### 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.  
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Susmita Kapdoskar  
Analyzed by

  
Varsha Pole  
Reviewed by



  
Arundhara 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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 14001  
ISO 9001

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## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/05/2022/0207	Date of Issue	16/05/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	09/05/2022	Temperature(°C)	28.1	Humidity (%)	65
Analysis Started On	12/05/2022	Analysis Completed On		16/05/2022	

## AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadyan 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.  
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Susmita Kapdoskar  
Analyzed by

Varsha Pole  
Reviewed by



Anandjepp 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



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ISO 9001:2015  
SWE 001

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/134	Issue Date	11/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022	
Sample Container	Glass bottles	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.82	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.46	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	96.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	200.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	18.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	98.00	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. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*V. Chopdekar*  
Varsha Pole  
Reviewed By



*Ananddeep Sawant*  
Ananddeep Sawant  
Authorized Signatory



Report No.	SEE/05/2022/134	Issue Date	11/05/2022
Order / Reference	As per dated 05/05/2022	Sample Received On	05/05/2022
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022
Name of Client	M/s. Megawide Construction DMCO C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D.
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	14.42	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.16	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	15.06	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> 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	8.20	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	6.25	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*V Chopdekar*  
Varsha Pole  
Reviewed By



*Amitdeep Sawant*  
Amitdeep Sawant  
Authorized Signatory



Report No.	SEE/05/2022/134	Issue Date	11/05/2022
Order / Reference	As per dated 05/05/2022	Sample Received On	05/05/2022
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by



*Varsha Pola*  
Reviewed By



*Anandeeep Sawant*  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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	T2021/06/017	26/06/2021	26/06/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001  
ISO 14001

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/135	Issue Date	11/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022	
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.78	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.65	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	92.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	170.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	11.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>-</sup>	5.49	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sub>2</sub> F
11.	Total Hardness as CaCO <sub>3</sub>	94.00	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. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Shreya Harmalkar*  
*Anisha Parab*

*Varsha Pole*  
Reviewed By



*Anandeeep Sawant*  
Authorized Signatory



Report No.	SEE/05/2022/135	Issue Date	11/05/2022
Order / Reference	As per dated 05/05/2022	Sample Received On	05/05/2022
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	1.20	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	16.83	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.59	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	12.62	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	0.03	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	9.40	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	7.75	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*[Signature]*

*[Signature]*  
Varsha Pole  
Reviewed By



*[Signature]*  
Amitjeep Sawant  
Authorized Signatory





### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/163	T2022/04/020	18/04/2022	18/04/2023
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	25/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

B-305/307, Plot No. 01, Park Estate, Besi Marg, Verna, A/c, Old Dahan Road, District: Porvair, Panaji-Goa-403 001, Goa State, India. (T) : (0832) 2411222 / 2411223 • E-mail : sadekarenviro@rediffmail.com  
 Lab accredited by NABL & ISO 9001 up to 03-11-2023 • Certified by ISO 9001:2015 & ISO 45001:2018

FORM-1 (REV. 01)  
 09/01/2022

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/136	Issue Date	11/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.40	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.38	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	20.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	58.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	<10.00	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	22.00	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. Shreya Harmalkar  
 2. Anisha Parab  
 Analyzed by *[Signature]*

*[Signature]*  
 Varsha Pole  
 Reviewed By

*[Signature]*  
 Anandeeep Sawant  
 Authorized Signatory





Report No.	SEE/05/2022/136	Issue Date	11/05/2022
Order / Reference	As per dated 05/05/2022	Sample Received On	05/05/2022
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 28)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	4.80	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.03	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	2.43	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	1.40	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Shreya Harmalkar  
2. Anisha Parab  
Analyzed by

*Anisha Parab*

*Vijayadevi Kas*  
Varsha Pole  
Reviewed By



*Anand Deep Sawant*  
Anand Deep Sawant  
Authorized Signatory



Report No.	SEE/05/2022/136	Issue Date	11/05/2022
Order / Reference	As per dated 05/05/2022	Sample Received On	05/05/2022
Analysis Started On	05/05/2022	Analysis Completed On	11/05/2022
Name of Client	Mrs. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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1. Shreya Hermalkar  
2. Anisha Parab  
Analyzed by

*Shreya Hermalkar*  
*Anisha Parab*

*Vehopdekar*  
Varsha Pole  
Reviewed By



*Ananddeep Sawant*  
Ananddeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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	T2021/06/017	26/06/2021	26/08/2022
03.	U V Spectrophotometer	Q/0165	-	Inhouse Calibration	
04.	ICP- CES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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ISO 9001:2015  
ISO 14001

Lab accredited by NABL & IGC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/137	Issue Date	10/05/2022	
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: 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	L.S.C. Colony			
Sample details	Drinking Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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



*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By

*Anandeep Sawant*

Anandeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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5040347700  
 05/05/2022

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/05/2022/138	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	84
Sampling point	PTB			
Sample details	Drinking Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ananddeep Sawant*

Ananddeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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Goa State, India. © : (0832) 2411322 / 2411323 • E-mail : sadekarenviro@gmail.com

ISO 9001

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/139	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	V.N.C. Colony			
Sample details	Drinking Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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Anisha Parab  
Analyzed by

Varsha Pole  
Reviewed By



Anil Deep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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ENV-001/2015  
ENV-001/2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/140	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling point	KMV			
Sample details	Drinking Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
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 <sup>rd</sup> Edition ) 9221-B
2	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

Anisha Parab  
Analyzed by

Varsha Pole  
Reviewed By



Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : satekarlabgoa@gmail.com  
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ISO 9001:2015  
ISO 45001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/141	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C 28.2	Humidity % 64
Sampling point	Labour Colony			
Sample details	Drinking Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Arunjeep Sawant*  
Arunjeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SEE/WH/103

SYMP/103

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/130	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Tamp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.44	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	732.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	230.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	215.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	19.80	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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

*Asmita Sawant*  
Asmita Sawant  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Arundeep Sawant*  
Arundeep Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. 8-05, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.  
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Qualified By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (E)

BRANCH OFF. : 370, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (C) : (0832) 2437048 / 2437164

E-mail : sadekarenviro@gmail.com • Website : www.sadekarsenviro.com • CIN - U45209MH1998PTC-110372



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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	T2021/06/017	26/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/307, Plot No. 81, Field Estate, Pals Road, Verna, Alta, Old Belim Road, Bandra, Powai, Panaji-Goa-401 101  
 Goa State, India. ID : (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

SWA (WFO)  
 SWW (WFO)

Lab Accredited by MEF & C&E Valid up to 14.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2022/131	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.44	-	5.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ B
2.	Chemical Oxygen Demand (COD)	156.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	19.60	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	67.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	5.80	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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*Asmita Sawant*  
 Asmita Sawant  
 Analyzed By

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Ananddeep Sawant*  
 Ananddeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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	T2021/06/017	26/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-300017, Plot No. 11, Pabel Estate, Ram Marg, Varan, Aho, Oil Bldg Road, Bardo, Purnora, Panaji-Goa-403 101.  
Goa State, India. (0832) 241322 / 241323 • E-mail: sdekar@rediffmail.com

ISO 9001:2015  
ISO 14001

Lab Accredited by NABL & COI Valid up to 03.11.2021 • Certified by ISO 9001:2015 & ISO 14001:2015

ANALYSIS REPORT FOR WATER SAMPLE				
Report No	SEE/05/2022/132	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.37	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	448.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	117.80	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	8.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

Note: Test results related only to the sample tested.

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

*Asmita*  
Asmita Sawant  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ashdeep*  
Ashdeep Sawant  
Authorized Signatory

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Certified By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 957 (E)

BRANCH OFF : 310, Dharma Towers, ECO Park, Panaji-403 001, Goa State, India (P) : (0832) 2437048 / 2437164  
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • QR : 11452003M11906PTC116371

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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	T2021/06/017	26/06/2021	26/06/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/307, Plot No. 61, Phase Estate, Reis Margas, Varan, Aha, Old Belim Road, Bandra, Porvalla, Panaji Goa-403 101.  
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SEE/1114  
SEE/1114

Lab accredited by MOP & CC Water up to 03.31.2020 • Certified by ISO 9001:2015 & ISO 14001 : 2015

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/05/2022/133	Issue Date	10/05/2022	
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 05/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/GSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	05/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	05/05/2022	
Analysis Started On	05/05/2022	Analysis Completed On	10/05/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.78	-	5.5 - 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ B
2.	Chemical Oxygen Demand (COD)	36.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	8.40	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	16.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.80	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Ammonia	3.36	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	6.92	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	56	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E
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**Note:** Test results related only to the sample tested.

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

1. Mugdha Gawade  
2. Anisha Parab  
Analyzed By

Varsha Pole  
Reviewed By



Aman Deep Sawant  
Authorized Signatory

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Granted By Ministry of Environment, Forest & Climate Change, Govt Of India, U. O. 157-01

**BRANCH OFF :** 310, Dampo Towers, I.D.M. Fello, Panaji-403 001, Goa State, India ☎ : (0832) 2437048 / 2437164  
E-mail : [sadekarenviro@rediffmail.com](mailto:sadekarenviro@rediffmail.com) • Website : [www.adeskarenviro.com](http://www.adeskarenviro.com) • CIN : U45200MH1998PTC-116378

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021	26/06/2022
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	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

ISO 9001:2015, Regd. No. 47, Patal Bldg, Reis Marg, Verna, Goa, Old Station Road, Borecoz, Porvair, Panaji-Goa-403 101 /  
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ENVIRONMENTAL  
SERVICE

Lab accredited by PROF A CQI Valid up to 03 11 2023 • Certified by ISO 9001:2015 & ISO 18004: 2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/TMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemchadvan Boundary (Goa State) (G-A2)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	71	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	243	Longitude	E 73°49'21.5"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0035	33.83	19.50	4.01	10.19	0.05	54.36
2.	06/06/2022	SEE/AR/06/2022/0115	37.20	9.52	<3.00	6.42	0.06	48.18
3.	09/06/2022	SEE/AR/06/2022/0230	36.66	13.93	<3.00	<6.00	0.03	51.68
4.	13/06/2022	SEE/AR/06/2022/0281	27.35	7.11	<3.00	7.47	0.05	34.79
5.	16/06/2022	SEE/AR/06/2022/0370	26.26	8.57	3.38	<6.00	0.06	35.02
6.	20/06/2022	SEE/AR/06/2022/0490	22.42	7.32	<3.00	<6.00	0.03	29.79
7.	23/06/2022	SEE/AR/06/2022/0516	15.19	6.28	<3.00	<6.00	0.02	21.54
8.	27/06/2022	SEE/AR/06/2022/0579	31.16	11.35	<3.00	<6.00	0.05	43.28
9.	30/06/2022	SEE/AR/06/2022/0670	27.05	8.57	<3.00	<6.00	0.03	36.44
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			ug/ m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	mg/m <sup>3</sup>	ug/m <sup>3</sup>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Akash Pattade  
Analyzed by

*Signature*  
M. M. M. M.

*Signature*  
Vishva Pole  
Reviewed by



*Signature*  
Ajaydeep 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 BL(SR NO.2028-DTD-2016)	LES-CCL/FF/MF/SC/1146	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 14001  
 ISO 9001

Lab accredited by NABL & ISO Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Mopa Boundary (Goa State) (G-A1)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	72	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	231	Longitude	E 73°56'32.4"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0034	47.72	17.92	5.30	7.05	0.06	67.36
2.	06/06/2022	SEE/AR/06/2022/0114	63.82	30.52	<3.00	6.68	0.08	96.51
3.	09/06/2022	SEE/AR/06/2022/0229	50.93	15.01	3.75	<6.00	0.07	68.83
4.	13/06/2022	SEE/AR/06/2022/0280	39.08	10.31	7.74	7.42	0.03	49.75
5.	16/06/2022	SEE/AR/06/2022/0377	34.44	11.19	<3.00	<6.00	0.06	45.88
6.	20/06/2022	SEE/AR/06/2022/0439	29.04	9.44	<3.00	<6.00	0.03	37.99
7.	23/06/2022	SEE/AR/06/2022/0515	18.43	6.82	<3.00	<6.00	0.05	25.27
8.	27/06/2022	SEE/AR/06/2022/0578	43.08	15.47	<3.00	<6.00	0.07	59.60
9.	30/06/2022	SEE/AR/06/2022/0669	22.53	7.36	<3.00	<6.00	0.03	30.48
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			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
- : This certificate may not be reproduced in part, without the permission of this laboratory.
- : 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) Akash Pattade  
 Analyzed by

*Naik*  
*Pattade*

*Vehopdekar*  
 Varsha Pole  
 Reviewed by



*Sawant*  
 Ananddeep 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 450 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
 ISO 14001

Lab accredited by MEF A. CD Valid up to 03-11-2023 \* Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	73	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	215	Longitude	E 73°53'14.22"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0036	32.74	22.04	<3.00	5.43	0.03	35.59
2.	06/06/2022	SEE/AR/06/2022/0116	41.21	12.60	3.03	<6.00	0.05	55.00
3.	09/06/2022	SEE/AR/06/2022/0231	36.45	9.23	<3.00	<6.00	0.06	46.85
4.	13/06/2022	SEE/AR/06/2022/0282	26.46	6.74	3.13	<6.00	0.02	23.10
5.	16/06/2022	SEE/AR/06/2022/0379	21.36	9.15	<3.00	7.26	0.05	30.88
6.	20/06/2022	SEE/AR/06/2022/0441	22.20	7.40	<3.00	<6.00	0.05	30.00
7.	23/06/2022	SEE/AR/06/2022/0517	12.51	8.48	<3.00	<6.00	0.03	20.98
8.	27/06/2022	SEE/AR/06/2022/0580	27.09	16.55	<3.00	<6.00	0.05	43.92
9.	30/06/2022	SEE/AR/06/2022/0671	19.74	8.23	<3.00	<6.00	0.02	28.36
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEEALD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	IS 5182 (Part 10)	IS 5182 (Part IV)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

1) Aditya Naik

2) Akash Pattada

Analyzed by

Varsha Pole

Reviewed by



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 (SR NO. 1719-DTI-2012)	LES-CCL/FF/MF/SC/1153	15/07/2021	14/07/2022

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	LES-CCL/FF/RF/SC/3771	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

B-30/2007, Plot No. 61, Field Station, Pans Marga, Vasco, Goa, Old Seifa Road, Bunder, Porvorim, Thane-500-401, Goa State, India. (T) : (0222) 2411322 / 2411323 • E-mail : satekar@rediffmail.com

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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)					
Average Ambient Temperature (°C)	30.9	Average Humidity (%)	74	Latitude	N 15°41'41.9"	
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	198	Longitude	E 73°50'16.6"	
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)					

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0037	38.51	15.18	<3.00	5.22	0.05	54.80
2.	06/06/2022	SEE/AR/06/2022/0117	29.05	10.19	<3.00	<6.00	0.03	40.05
3.	09/06/2022	SEE/AR/06/2022/0232	23.07	17.42	<3.00	<6.00	0.06	41.38
4.	13/06/2022	SEE/AR/06/2022/0283	14.13	7.82	<3.00	<6.00	0.05	22.06
5.	16/06/2022	SEE/AR/06/2022/0380	19.15	6.24	<3.00	<6.00	0.03	25.59
6.	20/06/2022	SEE/AR/06/2022/0442	20.15	5.28	<3.00	<6.00	0.06	25.44
7.	23/06/2022	SEE/AR/06/2022/0518	12.18	5.82	<3.00	<6.00	0.05	18.02
8.	27/06/2022	SEE/AR/06/2022/0581	22.56	9.31	<3.00	<6.00	0.03	32.12
9.	30/06/2022	SEE/AR/06/2022/0672	17.05	7.82	<3.00	<6.00	0.05	25.47
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LO/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182 (Part 10)	IS 5182 (Part 14)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

1) Aditya Naik  
2) Akash Pattade  
Analyzed by

*Aditya Naik*  
*Akash Pattade*

*V. Chopdekar*  
Varsha Pole  
Reviewed by



*Anandhep Sawant*  
Anandhep 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 (SR NO. 1456-DTD-2009)	LES-CCL/FF/MF/SC/1157	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 299-DT/-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3400	15/07/2021	14/07/2022

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



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Goa State, India. ☎ : (0832) 2411322 / 2411324 • E-mail : sadekar@rediffmail.com  
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GPMS (L1) (27)  
SPL/11/17

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porvair (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	75	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	210	Longitude	E 73°46'21.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0038	45.75	20.71	<3.00	<6.00	0.05	67.01
2.	06/06/2022	SEE/AR/06/2022/011B	31.57	17.84	<3.00	<6.00	0.06	49.94
3.	09/06/2022	SEE/AR/06/2022/0233	38.81	25.57	<3.00	<6.00	0.07	65.06
4.	13/06/2022	SEE/AR/06/2022/0284	20.30	8.23	<3.00	<6.00	0.03	29.53
5.	16/06/2022	SEE/AR/06/2022/0381	22.40	9.48	<3.00	<6.00	0.05	32.00
6.	20/06/2022	SEE/AR/06/2022/0443	23.25	8.11	<3.00	<6.00	0.02	31.27
7.	23/06/2022	SEE/AR/06/2022/0519	11.15	5.24	<3.00	<6.00	0.06	16.68
8.	27/06/2022	SEE/AR/06/2022/0582	26.86	7.98	<3.00	<6.00	0.03	35.41
9.	30/06/2022	SEE/AR/06/2022/0673	15.54	6.11	<3.00	<6.00	0.05	22.38
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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

1) Aditya Naik  
2) Akash Pattade  
Analyzed by

*Signature*  
*Signature*

*Signature*  
Varsha Pole  
Reviewed by



*Signature*  
Anandjeep 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 400 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1152	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS- APM 550 MINI	LES-CCL/FF/RF/SC/3401	15/07/2021	14/07/2022

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



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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	73	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	223	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0039	40.24	12.48	<3.00	7.41	0.06	53.15
2.	06/06/2022	SEE/AR/06/2022/0119	26.55	8.57	<3.00	<6.00	0.03	35.53
3.	09/06/2022	SEE/AR/06/2022/0234	32.23	7.86	<3.00	<6.00	0.05	40.48
4.	13/06/2022	SEE/AR/06/2022/0285	23.03	6.53	3.74	<6.00	0.05	30.27
5.	16/06/2022	SEE/AR/06/2022/0382	22.00	10.73	<3.00	<6.00	0.03	35.90
6.	20/06/2022	SEE/AR/06/2022/0444	18.45	6.24	<3.00	<6.00	0.06	22.78
7.	23/06/2022	SEE/AR/06/2022/0520	9.70	6.86	<3.00	<6.00	0.02	16.60
8.	27/06/2022	SEE/AR/06/2022/0583	24.58	7.11	<3.00	<6.00	0.05	32.00
9.	30/06/2022	SEE/AR/06/2022/0674	10.13	9.07	<3.00	<6.00	0.03	19.74
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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1) Aditya Naik  
 2) Akash Patil  
 Analyzed by

*Varsha Poia*  
 Varsha Poia  
 Reviewed by



*Apardeep Sawant*  
 Apardeep 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 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

UV Spectrophotometer

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

Fine Particulate Sampler (SR NO. 03-DTA-2017)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1107	15/07/2021	14/07/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

B-308/107, Plot No. 51, Palm Estate, Reis Marg, Verna, Alt, Old Belm Road, Bardez, P.O. Verna, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2511322 / 2411322 • E-mail : data[at]gwell[red]mail[dot]com  
 Lab accredited by MoEF & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SCALE: 1:1000  
 DATE: 02/07/2022

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	73	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	236	Longitude	E 73°46'00.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0040	37.69	17.71	<3.00	<6.00	0.03	55.76
2.	06/06/2022	SEE/AR/06/2022/0120	29.68	9.23	<3.00	6.57	0.05	39.10
3.	09/06/2022	SEE/AR/06/2022/0235	18.14	7.86	<3.00	<6.00	0.03	26.13
4.	13/06/2022	SEE/AR/06/2022/0286	19.86	6.36	<3.00	<6.00	0.06	26.63
5.	16/06/2022	SEE/AR/06/2022/0303	21.01	8.23	<3.00	<6.00	0.05	29.34
6.	20/06/2022	SEE/AR/06/2022/0445	22.48	7.36	<3.00	<6.00	0.03	28.34
7.	23/06/2022	SEE/AR/06/2022/0521	14.08	6.99	<3.00	<6.00	0.03	20.93
8.	27/06/2022	SEE/AR/06/2022/0584	23.45	6.36	<3.00	<6.00	0.05	30.00
9.	30/06/2022	SEE/AR/06/2022/0675	21.49	5.99	<3.00	<6.00	0.02	27.52
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	IS 5182( Part 10)	IS 5182( Part 15)

### \*NATIONAL AMBIENT AIR STANDARDS (2009)

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1) Aditya Naik  
 2) Akash Patilade  
 Analyzed by

*Signature*  
*Patilade*

*Varsha Pole*  
 Reviewed by



*Signature*  
 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 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3402	15/07/2021	14/07/2022

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



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 Goa, India. ID: (0832) 2411322 / 2411323 • E-mail: satekar@seee.com  
 Lab accredited by MoEF & CD Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

SRVC/01/01  
 S/VE/11/1

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State) (M-A2)					
Average Ambient Temperature (°C)	30.7	Average Humidity (%)	72	Latitude	N 15°46'12.3"	
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	227	Longitude	E 73°49'20.5"	
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)					

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0041	29.28	8.28	3.11	6.30	0.03	48.12
2.	06/06/2022	SEE/AR/06/2022/0121	26.06	10.60	<3.00	<6.00	0.05	37.99
3.	09/06/2022	SEE/AR/06/2022/0236	30.41	17.13	<3.00	<6.00	0.06	48.31
4.	13/06/2022	SEE/AR/06/2022/0287	21.98	6.86	<3.00	<6.00	0.03	29.22
5.	16/06/2022	SEE/AR/06/2022/0384	18.85	5.41	<3.00	<6.00	0.02	24.56
6.	20/06/2022	SEE/AR/06/2022/0446	14.58	6.57	<3.00	<6.00	0.05	21.21
7.	23/06/2022	SEE/AR/06/2022/0522	8.47	5.07	<3.00	<6.00	0.03	13.29
8.	27/06/2022	SEE/AR/06/2022/0585	15.49	5.57	<3.00	<6.00	0.02	21.56
9.	30/06/2022	SEE/AR/06/2022/0676	17.80	6.07	<3.00	<6.00	0.05	24.11
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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)

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

1) Aditya Naik  
 2) Akash Patil  
 Analyzed by

Varsha Pole  
 Reviewed by

Arundeeep 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- CEIS 121(SR NO.01-DTB-2017)	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 110-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/354D	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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001  
 ISO 14001

Lab accredited by NABL & OJZ Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	02/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	June 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Netarde (Maharashtra State) (M-A3)					
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	74	Latitude	N 15°46'11.7"	
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	245	Longitude	E 73°50'48.0"	
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM-411)					

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1.	02/06/2022	SEE/AR/06/2022/0042	21.19	8.82	<3.00	8.14	0.05	37.14
2.	06/06/2022	SEE/AR/06/2022/0122	27.08	18.84	<3.00	<6.00	0.03	46.96
3.	09/06/2022	SEE/AR/06/2022/0237	17.94	10.77	<3.00	<6.00	0.06	28.99
4.	13/06/2022	SEE/AR/06/2022/0268	16.94	6.69	<3.00	<6.00	0.02	24.07
5.	16/06/2022	SEE/AR/06/2022/0385	25.34	17.09	<3.00	<6.00	0.05	42.57
6.	20/06/2022	SEE/AR/06/2022/0447	14.79	9.65	<3.00	<6.00	0.03	24.49
7.	23/06/2022	SEE/AR/06/2022/0523	10.16	6.99	<3.00	<6.00	0.06	17.20
8.	27/06/2022	SEE/AR/06/2022/0586	22.04	5.86	<3.00	<6.00	0.03	36.15
9.	30/06/2022	SEE/AR/06/2022/0677	26.08	9.27	<3.00	<6.00	0.02	35.66
NAAQS Limits*			100	60	80	80	4	
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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) Akash Pattade

Analyzed by

Vehopadekar

Varsha Pole

Reviewed by

Ananddeep 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 BL(SR NO.2024-DTD-2016)	LES-CCL/FF/MF/SC/1144	15/07/2021	14/07/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 105-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT 114)	20/11/2021	19/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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

TYPE OF REPORT  
 ENVIRONMENTAL

AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/06/2022/0238	Date of Issue	15/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	09/06/2022	Temperature(°C)	28.0	Humidity (%)	65
Analysis Started On	13/06/2022	Analysis Completed On		15/06/2022	

### AMBIENT AIR LOCATION

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

### Chemical Testing - Atmospheric Pollution

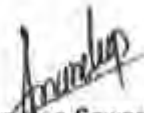
Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 16

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

  
 Susmita Kapdoskar  
 Analyzed by

  
 Varsha Pole  
 Reviewed by



  
 Anandeeep 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	OV5 Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SPICE 1000  
 SAAR 1000

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/06/2022/0239	Date of Issue	15/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	09/06/2022	Temperature(°C)	28.0	Humidity (%)	65
Analysis Started On	13/06/2022	Analysis Completed On	15/06/2022		

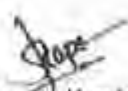
## AMBIENT AIR LOCATION

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 16

- 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 Kupdoskar  
 Analyzed by

  
 Varsha Pole  
 Reviewed by



  
 Anandeeep 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



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ISO 14001:2015

ISO 9001:2015

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## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/06/2022/0240	Date of Issue	15/06/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	09/06/2022	Temperature(°C)	28.0	Humidity (%)	65
Analysis Started On	13/06/2022	Analysis Completed On	15/06/2022		

### AMBIENT AIR LOCATION

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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Suarnita Kapdoskar  
Analyzed by

Varsha Pole  
Reviewed by

Ananddeep Sawant  
Authorized Signatory

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Sanitized by Ministry of Environment, Forest & Climate Change, Govt Of India, S. D. 857 (E)

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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	E/FF/3523	18/02/2022	17/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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PRIVATE LIMITED  
 CMA-1197

## NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/06/2022/0289-0290, 0417-0418, 0387, 0399, 0389, 0485, 0498, 0400, 0486, 0499	Date of Issue	29/06/2022
Name of Client	M/s. Megawide Construction DMDC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		
Sampling Plan	SEEPL/D/FMT-54	Sampling Procedure No.	SEEPL/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	13/06/2022	SEE/AR/06/2022/0289	G-N1	I	Mopa Boundary	30.0	77.8	58.5	30.1	70.0	52.5
2.	13/06/2022	SEE/AR/06/2022/0290	G-N2	I	Shamecheadvan Boundary	31.3	79.6	57.5	30.7	69.8	51.7
3.	19/06/2022	SEE/AR/06/2022/0417	G-N3	C	Nagzar	31.3	74.4	51.6	32.6	67.8	46.6
4.	19/06/2022	SEE/AR/06/2022/0418	G-N4	R	Purva Casaryamem	30.0	55.5	47.5	30.0	56.7	39.7
5.	16/06/2022	SEE/AR/06/2022/0387	G-N5	R	Chandel	30.0	72.1	44.8	30.0	57.6	37.3
6.	17/06/2022	SEE/AR/06/2022/0399	G-N6	R	Khajna Amere Porcodem	30.0	69.7	46.3	30.0	50.1	36.9
7.	16/06/2022	SEE/AR/06/2022/0386	G-N7	R	Warkhand	30.3	69.5	49.9	31.8	54.2	39.6
8.	21/06/2022	SEE/AR/06/2022/0485	G-N8	C	Rajvil Wada Torxem	30.0	75.8	52.1	30.0	60.4	45.4
9.	22/06/2022	SEE/AR/06/2022/0498	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.0	71.3	56.8	30.8	65.9	48.8
10.	17/06/2022	SEE/AR/06/2022/0400	M-N1	R	Safarda	30.0	69.7	49.4	31.1	53.7	38.8
11.	21/06/2022	SEE/AR/06/2022/0486	M-N2	R	Dhngoa	30.0	69.7	45.1	30.0	51.8	39.1
12.	22/06/2022	SEE/AR/06/2022/0499	M-N3	R	Netarde	33.4	72.1	45.6	33.7	55.6	36.9

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

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

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

- 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) Leq denotes the time weighted average of the level of sound in decibels on scale A which is-relatable to human hearing. A "decibel" is a unit in which noise is measured.
  - "A" in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
  - Leq: It is 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 2016.  
 : 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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Sunilvan Gawas  
 Monitored by

Uhopdekar  
 Varsha Pole  
 Reviewed by

Anoop Sawant  
 Authorized Signatory

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 E-mail : satekarenviro@rediffmail.com • Website : www.satekarenviro.com • CIN - U46200MH1998PTC1116379



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/346	18/07/2021	18/07/2022

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/347	18/07/2021	18/07/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by MoEF & DG Water up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018.

WPC WATER  
SPW LIFE

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/247	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Tamp °C	Humidity %
			26	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides outfall 2 ( CV18) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.75	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	79.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	45.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Anandjeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by MoEF & CC Valid up to 05.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SAME UNIT  
SAME LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/248	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall - 3 (Varconda)			
Sample details	Storm Water Outfall 3	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.13	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	59.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	36.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

*Asmita Sawant*

Asmita Sawant  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ananddeep Sawant*

Ananddeep Sawant  
Authorized Signatory

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Granted By Ministry of Environment, Forest & Climate Change, Govt Of India, E. O. 857 (E)

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - UH520MH1058P7C-165170

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/032	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-309/307, Plot No. 81, Patel Estate, Pans Marga, Vashi, Alib, Old Belim Road, Bhande, Powai, Panaji-Goa-402 101;  
Goa State, India. ☎ : (0832) 241322 / 241323 • E-mail : sadekar@rediffmail.com  
Lab accredited by MoEF & CC Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001 : 2018

SAME WATER  
SAME LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/250	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/CSP-10	
Sampling point	Airside outfall 5 (Chardel)			
Sample details	Storm Water Outfall 5	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.20	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	58.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Mugdha Gawade  
Analyzed by

Varsha Pole  
Reviewed By



Anandeeep Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.  
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BRANCH OFF. : 310, Dempo Towers, EDC Patta, Panaji-403 001, Goa State, India ☎ : (0832) 2437048 / 2437164  
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45200MH10009PTC-1100473

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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.	Hol Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-395/397, Plot No. 81, Palm Estate, Pali Magor, Veres, Ato, Old Belim Road, Bardez, Panvel, Parali-Goa-403 101, Goa State, India. © - (0832) 2411322 / 2411323 • E-mail: sadekar@rediffmail.com

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Lab. accredited by NABL & CC-Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/251	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 1 (Main gate)			
Sample details	Storm Water Outfall 1	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

## Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	8.95	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	70.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	39.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Mugdha*  
Mugdha Gawade  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeep*  
Anandeep Sawant  
Authorized Signatory

HEAD OFF & LAB : Plot No. A-95, Road No. 18, Klean Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.  
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Created by Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (G)

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SAVE WATER  
SAVE LIFE

Lab accredited by MoEF & CC Water up to 02.11.2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/253	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall -3 (Behind MCDMCC Office)			
Sample details	Storm Water Outfall 3	Data of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.42	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit.	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	79.00	mg/lit.	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	35.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Mugdha Gawade  
Analyzed by

Varsha Pole  
Reviewed By



Ananddeep Sawant  
Authorized Signatory

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E-mail: sadekarenviro@rediffmail.com \* Website: www.sadekarenviro.com \* CIN - U45200MH1000BP191100071

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	COD Digester	Q/018	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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SAVE WATER  
SAVE LIFE

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/245	Issue Date	15/06/2022	
Name of Client	Mrs. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 2 (CV-13) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.95	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	76.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-C & G
6.	Total Dissolved Solids (TDS)	43.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Varsna Pole*  
Varsna Pole  
Reviewed By



*Apardeep Sawant*  
Apardeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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DRIVE UPON  
SAVE LIFE

Lab accredited by MoEF & CC Valid up to 03/11/2023 • Certified by ISO 9001:2015 & ISO 15001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/246	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall 2 (CV-13A) Amherem			
Sample details	Storm Water Outfall 2	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

## Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	5.84	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	89.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	49.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Mugdha*  
Mugdha Gawade  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Arandeep*  
Arandeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SPEC (LITTE)  
SPEC (LIT)

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/252	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall -2 ( Tulaskarwadi)			
Sample details	Storm Water Outfall 2	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.93	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	61.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Asmita*

Asmita Sawant  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Anandeeep*

Anandeeep Sawant  
Authorized Signatory

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Recognized by Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (E)

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E-mail : sadakarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209GJ1999PTC100115



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/005	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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STATE CERTIFIED  
SPLA-UN

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/249	Issue Date	15/06/2022	
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 10/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall 4 ( Hot Mix Plant)			
Sample details	Storm Water Outfall 4	Date of collection	10/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	10/06/2022	
Analysis Started On	10/06/2022	Analysis Completed On	15/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.52	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	75.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	42.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ananddeep Sawant*  
Ananddeep Sawant  
Authorized Signatory

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Gazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, S- O. 457 (E)

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E-mail : satef@goaenviro@gmail.com • Website : www.sadekarenviro.com • CN - U45205MH1998PTC-18376

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/008	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/007, Plot No. 111, Patel Estate, Reis Margis, Verem, Ato, Old Baten Road, Bardol, Porwari, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : sdekar@seee.com  
 Lab accredited by MoEF & GO Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

SAVE WATER  
 SAVE LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/540	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			26.1	67
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall -2 ( Tulaskarwad)			
Sample details	Storm Water Outfall 2	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.20	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	72.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	48.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Mugdha Gawade  
 Analyzed by

Varsha Pole  
 Reviewed By



Anandjeep Sawant  
 Authorized Signatory

HEAD OFF & LAB : Plot No. A-91, Road No. 10, Kisan Nagar Road, M.I.D.C. Vilega Industrial Area, Thane - 400 604, Maharashtra State, India.  
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 Governed By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 257 (E)

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 E-mail : sdekar@seee.com • Website : www.sadekarenviro.com • CIN - U45209MH1098FTC-119711

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-309/307, Plot No. 61, Patel Estate, Reis Micho, Venem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : sde@adekar.com

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SWE LIFE

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/541	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 1 (Main gate)			
Sample details	Storm Water Outfall 1	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.18	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H <sup>+</sup> -B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	75.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	44.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anand Sap Sawant*  
Anand Sap Sawant  
Authorized Signatory

**HEAD OFF. & LAB :** Plot No. A-95, Road No. 16, Kisan Nagar Road, M.J.D.C. Wagle Industrial Area, Thane-400 104, Maharashtra State, India.  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-305/307, Plot No. 81, Patel Estate, Hais Marg, Verna, Goa. Old Bhatin Road, Borda, Porvorim, Panaji-Goa-403 101.  
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SPM/JR/PRR  
SPM/USE

Lab accredited by NABL & CC Valid up to 03.11.2022 • Certified by ISO 9001:2015 & ISO 45001 : 2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/548	Issue Date	28/06/2022	
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 23/06/2022.	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside outfall 2 ( CV18) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	23/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/05/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.12	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/ltr	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	71.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	44.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

  
Varsha Pole  
Reviewed By



  
Ananddeep Sawant  
Authorized Signatory

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U15209MH1998PTC-110379



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SRM: ILET/ER  
SRM: I/RE

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/549	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside outfall- 3 Varconda			
Sample details	Storm Water Outfall 3	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.75	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	18.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	30.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Mugdha Gawade  
Analyzed by

Varsha Pole  
Reviewed By



Ananddeep Sawant  
Authorized Signatory

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Govt. of India, Ministry of Environment, Forest & Climate Change, Govt. Of India, G. O. 857 (E)

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U15209MH1008PTC-105175

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NABL & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 40001 : 2016

SEIVE LUTHER  
 SEIVE LUTHER

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/550	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 2 (CV-13) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.04	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	59.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	26.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
 Analyzed by

Varsha Pole  
 Reviewed By



Anandhar Sawant  
 Authorized Signatory

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 E-mail : sde@satyag@gmail.com • Website : www.sadekarenviro.com • CIN - U45201MH1998PTC-18119

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SRV/11/11/11  
SRV/11/11

Lab accredited by NABL & ISO Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/551	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPLQSP-10	
Sampling point	Airside Outfall 2 (CV-13A) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.90	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day) (BOD)	4.80	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	78.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	42.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

  
Varsha Pole  
Reviewed By



  
Anandeeep Sawant  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

H-308/207, Plot No. 01, Patel Estate, Rais Margis, Veras, Ato, Old Beller Road, Bardol, Porvora, Panaji-Goa-403 101.  
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Lab accredited by MoEF & CC Valid up to 02.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SAME CLIENT  
SAME LAB

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/539	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsida outfall 5 (Chandel)			
Sample details	Storm Water Outfall 5	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.32	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	63.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Anandheep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-10B/307, Plot No. 61, Patel Estate, Rais Marg, Varim, A/c. Old Bhatt Road, Bardez, Panvelin, Parali-Goa-403 101.  
 Goa State, India. ☎ (0832) 2411322 / 2411323 • E-mail : satekareenviro@gmail.com  
 Lab accredited by MoEF & CC Valid up to 02.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SAVE WATER  
SAVE LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/552	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab.	Temp °C	Humidity %
			28.1	87
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 4 ( Hot Mix Plant)			
Sample details	Storm Water Outfall 4	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	8.01	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H-B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	63.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	35.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Asmita Sawant  
Analyzed by

Varsha Pola  
Reviewed By



Anandeev Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/007, Plot No. 01, Patel Estate, Reis Margos, Veres, A/c, Old Belim Road, Bardez, Phavnim, Panaji-Goa-403 101.  
Goa State, India. ☎ : (0832) 2411822 / 2411323 \* E-mail : sdekar@seeindia.com  
Lab accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

NEW LUREN  
SOME LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2022/534	Issue Date	28/06/2022	
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 23/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LDFMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall -3 (Behind MCDMCC Office)			
Sample details	Storm Water Outfall 3	Date of collection	23/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	23/06/2022	
Analysis Started On	23/06/2022	Analysis Completed On	28/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.62	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.80	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	80.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.60	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	49.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Arundhara Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
ISO 14001

Lab accredited by MOEF & CG Valid up to 31.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/92	Issue Date	07/06/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mope, Goa			
Order / Reference	As per dated 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass bottles	Sample Quantity	5000 ml	

### Chemical Testing

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	0.63	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	74.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	190.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	26.52	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sub>2</sub> F
11.	Total Hardness as CaCO <sub>3</sub>	104.00	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 Harmaiker  
Analyzed by

*Anisha Parab*  
*Shreya Harmaiker*

*V. Chopdekar*  
Varsha Pole  
Reviewed By



*Anandheep Sawani*  
Anandheep Sawani  
Authorized Signatory



Report No.	SEE/06/2022/92	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F.D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	17.53	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.17	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	14.57	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	4.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	4.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Vishwadekar*  
Varshe Pole  
Reviewed By



*Anandeeep*  
Anandeeep Sawant  
Authorized Signatory





Report No.	SEE/06/2022/92	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*V Chopdekar*  
Varshe Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SMILE WITH IT  
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Lab accredited by NABL & ISO Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001:2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No	SEE/05/2022/93	Issue Date	07/06/2022	
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 02/06/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 68
Sampling Plan	SEEPL/LDFMT- 54	Sampling Procedure No.	SEEPL/QSP- 10	
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass bottle + FVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10530)	Method
1.	pH	6.68	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.82	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	76.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	185.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	33.03	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>-2</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	106.00	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 Hamalkar  
Analyzed by

Varsha Pole  
Reviewed By



Anantdeep Sawant  
Authorized Signatory



Report No.	SEE/05/2022/93	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 25)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B.C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metals 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	19.23	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.18	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	14.08	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	4.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	3.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*  
Reviewed By



*Anand Deep Sawant*  
Authorized Signatory



Report No.	SEE/05/2022/93	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Vehopdekar*  
Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NABL & ISO. Valid up to 03-11-2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SRM/11/038  
 SER/18/1

## ANALYSIS REPORT FOR WATER SAMPLE

Report No	SEE/06/2022/94	Issue Date	07/06/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMF Goa International Airport Limited			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 02/06/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 68
Sampling Plan	SEEP/LD/FMT-54	Sampling Procedure No.	SEEP/LQSP-10	
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	02/06/2022	
Sample Collected by	SEEP/L Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.35	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.70	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	24.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	70.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	21.02	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	22.00	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 *Anisha Parab*  
*Shreya Harmalkar*

*Vehopdekar*  
 Varsha Pole  
 Reviewed By

*Ananddeep Sawant*  
 Ananddeep Sawant  
 Authorized Signatory





Report No	SEE/06/2022/94	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	1.10	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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( 23 <sup>rd</sup> 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	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Vihopdekar*  
Varsha Pole  
Reviewed By



*Anand Deep Sawant*  
Anand Deep Sawant  
Authorized Signatory



Report No.	SEE/06/2022/94	Issue Date	07/06/2022
Order / Reference	As per dated 02/06/2022	Sample Received On	02/06/2022
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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



1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*  
Reviewed By

*Anandeeep Sawant*  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0188	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by MoEF & CC Valid up to 31.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

SAVE WATER  
 SAVE LIFE

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/95	Issue Date	06/06/2022	
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 02/06/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 88
Sampling point	L.S.C. Colony			
Sample details	Drinking Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	06/06/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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



*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By

*Arandeep Sawant*

Arandeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

S-306/307, Plot No. 51, Pearl Estate, Pole Marg, Verna, Aky, Old Belm Road, Bantur, Porvur, Panaji Goa-403 101.  
 Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : sadelabgoa@gmail.com  
 Lab accredited by MoEF & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

02/07/2022  
 10:24 AM

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/96	Issue Date	06/06/2022	
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 02/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling point	A.T.C			
Sample details	Drinking Water	Date of collection	02/05/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	06/06/2022	
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 <sup>rd</sup> Edition ) 9221-B
2	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parekh*  
 Anisha Parekh  
 Analyzed by

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Anandjeep Sawant*  
 Anandjeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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ISSUE DATE  
06/06/2022

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/97	Issue Date	06/06/2022	
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 02/05/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling point	V.N.C. Colony			
Sample details	Drinking Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	06/06/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Anandeep Sawant*  
Anandeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by NABL & IQC Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

QUALITY

ISO 9001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/98	Issue Date	06/06/2022	
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 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	88
Sampling point	KMV			
Sample details	Drinking Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	06/06/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested

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Anisha Parab  
Analyzed by

Varsha Pole  
Reviewed By



Anandeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C ]	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SPM (INDIA)  
 SPM (IND)

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/99	Issue Date	06/06/2022	
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 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling point	Labour Colony			
Sample details	Drinking Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	06/06/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested

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*Anisha Pareb*

Anisha Pareb  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Apardeep*

Apardeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by M&EP & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SA/ML/EDITOR  
SP/E/HC

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/88	Issue Date	07/06/2022	
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 - 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.49	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	520.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	133.20	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	195.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	12.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

Note: Test results related only to the sample tested

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*Shweta Sawant*  
Shweta Sawant  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

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Recognized By Ministry of Environment, Forest & Climate Change, Govt Of India. S-D-857(E)

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN : U45200MH1958PTC-163111

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/008	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SAVE (LINES)  
SAVE LINE

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/69	Issue Date	07/06/2022	
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. 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling Plan	SEEPL/DYFMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.13	-	5.5 – 8.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	132.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	21.58	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	50.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	5.80	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-C & G

**Note:** Test results related only to the sample tested.

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*Shweta*  
Shweta Sawant  
Analyzed By

*Varsha*  
Varsha Pole  
Reviewed By

*Anand*  
Anand Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-305/307, Plot No. 61, Fater Estate, Near Migal, Verem, A99, Old Batic Road, Bardez, Porvorim, Panaji-Goa-403 101  
Goa State, India. (T) : (0832) 2411322 / 2411323 \* E-mail : satekar@govt@gmail.com

ISO 11579:2013  
SVA/LWC

Lab accredited by MEF & IOC Valid up to 03/11/2023 \* Certified by ISO 9001:2015 & ISO 15001 : 2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2022/90	Issue Date	07/08/2022	
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 02/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	02/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/08/2022	
Analysis Started On	02/08/2022	Analysis Completed On	07/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.00	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ B
2.	Chemical Oxygen Demand (COD)	340.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C, 5 day)(BOD)	108.50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	82.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	7.80	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

Note: Test results related only to the sample tested.

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

*Asmita*

Asmita Sawant  
Analyzed By

*Varsha Pole*

Varsha Pole  
Reviewed By



*Apurdeep*

Apurdeep Sawant  
Authorized Signatory

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Controlled By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 307 (E)

BRANCH OFF : (M), Dempo Towers, EDC Pallo, Panaji-403 001, Goa State, India (T) : (0832) 2437046 / 2437169  
Email : sadekarenviro@sadefrmail.com \* Website : www.sadekarenviro.com \* (CIN) : U45201MH1990P11511679

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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S/PA/11/07/21

S/PA/11/07

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

ANALYSIS REPORT FOR WATER SAMPLE				
Report No	SEE/06/2022/91	Issue Date	07/06/2022	
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 02/06/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	68
Sampling Plan	SEEPLD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	02/06/2022	
Sample Collected by	SEEPL Representative	Sample Received On	02/06/2022	
Analysis Started On	02/06/2022	Analysis Completed On	07/06/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.70	-	5.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	7.00	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	13.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.20	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-C & G
6.	Ammonia	1.68	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	8.75	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

B.	Faecal coliforms at 44.5°C for 24 hrs.	33	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E
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**Note:** Test results related only to the sample tested.

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

1. Asmita Sawant  
2. Anisha Parab  
Analyzed By

*Asmita Sawant*  
*Anisha Parab*

*Vinoddekar*  
Varsha Pola  
Reviewed By



*Anantdeep Sawant*  
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BRANCH OFF : 310, Dempo Towers, SDC Palla, Panaji-403001, Goa State, India (P) : (0832) 2437040 / 2437104  
E-mail : sadekaronviro@rediffmail.com \* Website : www.sadekarenviro.com \* CIN - U15209MH1998PTC-115219



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/052	2021/09/001	04/09/2021	04/09/2022
02.	Hot Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022
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	T2021/08/070	28/08/2021	28/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NAEF & CIL valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

SPR-01/13  
 SMC-104

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Mopa Boundary (Goa State) (G-A1)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	69	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	231	Longitude	E 73°56'32.4"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0055	27.87	9.19	<3.00	<6.00	0.05	37.76
2	07/07/2022	SEE/AR/07/2022/0098	22.78	8.77	<3.00	<6.00	0.03	32.89
3	11/07/2022	SEE/AR/07/2022/0183	30.99	12.64	<3.00	<6.00	0.06	44.24
4	14/07/2022	SEE/AR/07/2022/0254	31.81	6.57	<3.00	<6.00	0.05	39.29
5	18/07/2022	SEE/AR/07/2022/0316	28.32	8.19	<3.00	<6.00	0.02	38.76
6	21/07/2022	SEE/AR/07/2022/0370	31.92	5.99	<3.00	<6.00	0.05	41.66
7	25/07/2022	SEE/AR/07/2022/0411	35.47	7.86	<3.00	6.27	0.06	43.91
8	28/07/2022	SEE/AR/07/2022/0625	26.77	11.81	<3.00	<6.00	0.03	39.06
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	-
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 08)	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) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Arandeep 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 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2871-DTG-2020)	LES-CCL/FF/MF/SC/1308	24/09/2021	23/09/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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

QAF/101191  
 288/101

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan Boundary(Goia State) (G-A2)				
Average Ambient Temperature (°C)	30.7	Average Humidity (%)	68	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	217	Longitude	E 73°49'21.5"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0056	22.76	10.69	<3.00	<6.00	0.03	33.81
2	07/07/2022	SEE/AR/07/2022/0099	20.61	7.61	<3.00	<6.00	0.02	27.38
3	11/07/2022	SEE/AR/07/2022/0184	23.45	10.73	<3.00	<6.00	0.05	34.68
4	14/07/2022	SEE/AR/07/2022/0255	28.38	9.27	<3.00	<6.00	0.03	38.35
5	18/07/2022	SEE/AR/07/2022/0317	18.59	8.03	<3.00	<6.00	0.03	29.80
6	21/07/2022	SEE/AR/07/2022/0371	26.71	9.23	<3.00	<6.00	0.05	35.40
7	25/07/2022	SEE/AR/07/2022/0412	20.16	8.11	<3.00	<6.00	0.02	29.02
8	28/07/2022	SEE/AR/07/2022/0626	16.57	5.36	<3.00	<6.00	0.03	22.52
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>2</sup>	µg/m <sup>3</sup>
Method			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Ananddeep 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 BL(SR NO.2028-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2881-DTH-2020)	LES-CCL/FF/MF/SC/1307	24/09/2021	23/09/2022

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	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



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 Lab accredited by MOEF & CC (Valid till 03.11.2023) \* Certified by ISO (9001:2015 & ISO 45001 : 2018)

WATER LETTER  
 SPM/11/01

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar (Goa State) (G-A3)		
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	70
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	233
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)		
Latitude	N 15°45'37.3"		
Longitude	E 73°53'14.22"		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0057	24.59	10.77	<3.00	<6.00	0.03	35.42
2	07/07/2022	SEE/AR/07/2022/0100	22.29	5.11	<3.00	<6.00	0.05	27.66
3	11/07/2022	SEE/AR/07/2022/0185	23.39	9.19	<3.00	<6.00	0.02	32.91
4	14/07/2022	SEE/AR/07/2022/0256	18.71	5.36	<3.00	<6.00	0.03	24.40
5	16/07/2022	SEE/AR/07/2022/0318	20.85	6.65	<3.00	<6.00	0.05	29.49
6	21/07/2022	SEE/AR/07/2022/0372	26.08	5.70	<3.00	<6.00	0.02	32.45
7	25/07/2022	SEE/AR/07/2022/0413	16.47	5.07	<3.00	<6.00	0.03	22.13
8	28/07/2022	SEE/AR/07/2022/0627	15.40	9.19	<3.00	<6.00	0.02	24.71
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182 (Part 23)	Lab SOP NO. SEEA/D/SOP-AA-04	IS 5182 (Part II)	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) Pandurang Gawas  
 Analyzed by

V. Chopdekar  
 Varsha Pole  
 Reviewed by



A. Deep 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 (SR NO. 1719-DTI-2012)	LES-CCL/FF/MF/SC/1153	15/07/2021	14/07/2022

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. 983-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS- APM 550 MINI	LES-CCL/FF/RF/SC/3771	24/09/2021	25/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
IATF 16949

Lab accredited by MoEF & C.O. Valid up to 03.11.2022 • Certified by ISO 9001:2015 & ISO 45001 : 2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	31.1	Average Humidity (%)	67	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	243	Longitude	E 73°50'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0058	16.22	5.41	<3.00	<6.00	0.02	21.65
2	07/07/2022	SEE/AR/07/2022/0101	22.68	6.82	<3.00	<6.00	0.03	30.06
3	11/07/2022	SEE/AR/07/2022/0186	15.17	8.40	<3.00	<6.00	0.03	23.81
4	14/07/2022	SEE/AR/07/2022/0257	13.70	5.45	<3.00	<6.00	0.02	19.24
5	18/07/2022	SEE/AR/07/2022/0319	24.47	7.11	<3.00	<6.00	0.02	32.37
6	21/07/2022	SEE/AR/07/2022/0373	28.96	13.01	<3.00	<6.00	0.05	47.60
7	25/07/2022	SEE/AR/07/2022/0414	23.24	12.75	<3.00	<6.00	0.03	36.94
8	28/07/2022	SEE/AR/07/2022/0628	18.55	5.35	<3.00	<6.00	0.02	24.50
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Mandeep Sawant  
Authorized Signatory

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**BRANCH OFF.** : 110, Dempo Towers, FC-3, Fatima, Panaji-403 001, Goa State, India (P) : (0832) 2417048 / 2432194.  
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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. 1456-DTD-2009)	LES-CCL/FF/MF/5C/1157	15/07/2022	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1456-DTD-2009)	LES-CCL/FF/MF/5C/1725	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler [ SR NO. 299-DTJ-2014]

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3400	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/5084	13/07/2022	12/07/2023

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



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by M&E & CO. Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

ISO 9001:2015

ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porcodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	69	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	227	Longitude	E 73°46'21.2"
Instruments Used	PPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0059	18.21	7.86	<3.00	<6.00	0.03	26.50
2	07/07/2022	SEE/AR/07/2022/0102	21.41	5.36	<3.00	<6.00	0.06	27.03
3	11/07/2022	SEE/AR/07/2022/0187	27.98	8.11	<3.00	<6.00	0.05	35.42
4	14/07/2022	SEE/AR/07/2022/0258	17.92	6.49	<3.00	<6.00	0.02	24.58
5	18/07/2022	SEE/AR/07/2022/0320	24.90	5.74	<3.00	<6.00	0.03	31.10
6	21/07/2022	SEE/AR/07/2022/0374	27.17	5.86	<3.00	<6.00	0.02	33.24
7	25/07/2022	SEE/AR/07/2022/0415	32.93	6.32	<3.00	6.99	0.02	39.59
8	28/07/2022	SEE/AR/07/2022/0629	11.78	8.27	<3.00	<6.00	0.03	20.23
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			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) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Arantjeep Sawant  
Authorized Signatory

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Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Samplers with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1152	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1717	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3401	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/5087	13/07/2022	12/07/2023

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



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FORM E/2022

30/07/2022

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	69	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	245	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0060	22.43	6.15	<3.00	<6.00	0.02	28.78
2	07/07/2022	SEE/AR/07/2022/0103	24.86	7.07	<3.00	<6.00	0.03	32.04
3	11/07/2022	SEE/AR/07/2022/0188	17.25	5.74	<3.00	<6.00	0.02	23.10
4	14/07/2022	SEE/AR/07/2022/0259	20.80	8.69	<3.00	<6.00	0.02	29.75
5	18/07/2022	SEE/AR/07/2022/0321	23.00	5.20	<3.00	<6.00	0.05	30.51
6	21/07/2022	SEE/AR/07/2022/0375	18.61	9.56	<3.00	<6.00	0.03	28.56
7	25/07/2022	SEE/AR/07/2022/0416	32.61	10.31	<3.00	6.85	0.05	43.41
8	28/07/2022	SEE/AR/07/2022/0630	13.45	6.61	<3.00	<6.00	0.02	20.95
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 03)	IS 5182( Part 10)	IS 5182( Part IV)

#### \*NATIONAL AMBIENT AIR STANDARDS (2009)

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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



Sanjeev Sawant

Authorized Signatory

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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 BL (SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL (SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1725	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 03-DTA-2017)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1107	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1671	13/07/2022	12/07/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT 114)	20/11/2021	19/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NABL & CO (W) up to 02, 11, 2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

QUALITY  
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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	70	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	218	Longitude	E 73°46'00.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0061	20.13	5.86	<3.00	<6.00	0.03	26.25
2	07/07/2022	SEE/AR/07/2022/0104	15.74	9.23	<3.00	<6.00	0.02	25.25
3	11/07/2022	SEE/AR/07/2022/0189	28.14	6.74	<3.00	<6.00	0.03	35.28
4	14/07/2022	SEE/AR/07/2022/0260	26.13	7.11	<3.00	<6.00	0.05	33.36
5	18/07/2022	SEE/AR/07/2022/0322	16.35	5.36	<3.00	<6.00	0.02	26.24
6	21/07/2022	SEE/AR/07/2022/0376	31.73	10.23	<3.00	<6.00	0.06	43.23
7	25/07/2022	SEE/AR/07/2022/0417	21.22	6.86	<3.00	<6.00	0.03	28.36
8	28/07/2022	SEE/AR/07/2022/0631	13.26	6.49	<3.00	<6.00	0.02	21.10
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Agardeep 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 (SR NO. 1901-DT1-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DT1-2014)	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. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3402	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/5083	13/07/2022	12/07/2023

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



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Lab accredited by MoEF, A, CO Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 15001 : 2015

27th FLOOR

ONE LINE

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State) (M-A2)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	69	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	237	Longitude	E 73°49'20.5"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM-411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0062	12.90	7.24	<3.00	<6.00	0.05	20.54
2	07/07/2022	SEE/AR/07/2022/0105	20.46	6.03	<3.00	<6.00	0.03	26.90
3	11/07/2022	SEE/AR/07/2022/0190	16.14	6.45	<3.00	<6.00	0.02	23.05
4	14/07/2022	SEE/AR/07/2022/0261	15.10	5.11	<3.00	<6.00	0.03	20.39
5	18/07/2022	SEE/AR/07/2022/0323	12.67	6.07	<3.00	<6.00	0.02	19.04
6	21/07/2022	SEE/AR/07/2022/0377	20.09	7.53	<3.00	<6.00	0.03	28.41
7	25/07/2022	SEE/AR/07/2022/0418	17.43	6.69	<3.00	<6.00	0.02	24.55
8	28/07/2022	SEE/AR/07/2022/0632	18.27	5.36	<3.00	<6.00	0.03	29.49
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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.

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2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Ashandeep Sawant  
Authorized Signatory

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Registered by Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (E)

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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- CEIS 121(SR NO.01-DTB-2017)	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- CEIS 121(SR NO.01-DTB-2017)	-	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 110-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/354D	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



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab accredited by ISO 15189 Valid up to 03, 11, 2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

LABORATORY  
SECTOR

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	30/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	July 2022		

AMBIENT AIR LOCATION			
Location of ambient air station	Netarde (Maharashtra State) (M-A3)		
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	69
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	217
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	04/07/2022	SEE/AR/07/2022/0063	14.64	6.03	<3.00	<6.00	0.02	21.24
2	07/07/2022	SEE/AR/07/2022/0106	12.60	5.13	<3.00	<6.00	0.05	17.78
3	11/07/2022	SEE/AR/07/2022/0191	22.38	7.44	<3.00	<6.00	0.06	29.92
4	14/07/2022	SEE/AR/07/2022/0262	19.10	5.70	<3.00	<6.00	0.03	25.13
5	18/07/2022	SEE/AR/07/2022/0324	15.63	6.99	<3.00	<6.00	0.02	23.19
6	21/07/2022	SEE/AR/07/2022/0378	16.09	8.11	<3.00	<6.00	0.03	25.41
7	25/07/2022	SEE/AR/07/2022/0419	18.50	6.78	<3.00	<6.00	0.03	25.67
8	28/07/2022	SEE/AR/07/2022/0633	20.97	8.36	3.08	<6.00	0.02	30.16
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182 (Part 22)	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) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Arundeeep 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 BL(SR NO.2024-DTD-2016)	LES-CCL/FF/MF/SC/1144	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No	Calibrated on	Calibration due date
01	RDS- APM 460 BL(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. 105-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/5085	13/07/2022	12/07/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT 114)	20/11/2021	19/11/2022



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STATE NUMBER

STATE IFC

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/07/2022/0192	Date of Issue	15/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/07/2022	Temperature(°C)	28.0	Humidity (%)	64
Analysis Started On	14/07/2022	Analysis Completed On	15/07/2022		

## AMBIENT AIR LOCATION

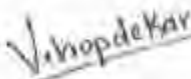
Location of ambient air station	Mopa Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

## 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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 Analyzed by

  
 Vansha Pole  
 Reviewed by



  
 Ananddeep Sawant  
 Authorized Signatory

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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



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27th FLOOR  
27th FLOOR

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/07/2022/0193	Date of Issue	15/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/07/2022	Temperature(°C)	28.0	Humidity (%)	64
Analysis Started On	14/07/2022	Analysis Completed On	15/07/2022		

## AMBIENT AIR LOCATION

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 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



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Stamp  
Signature

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/07/2022/0194	Date of Issue	15/07/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/07/2022	Temperature(°C)	28.0	Humidity (%)	64
Analysis Started On	14/07/2022	Analysis Completed On	15/07/2022		

## AMBIENT AIR LOCATION

Location of ambient air station	Shernecheadvan 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.  
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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



# Sadekar Enviro Engineers Pvt. Ltd.

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Page 1 of 1

Date: 14/07/2022

## WORKPLACE NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/07/2022/0195-0199	Date of Issue	14/07/2022
Name of Client	M/s Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPLD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Date of Sampling	11/07/2022		

### Chemical Testing – Atmospheric Pollution

Sr. No.	Report No.	Sampling Location (From 1.0 meter off)	Noise in dB (A)
			Day Time
01.	SEE/AR/07/2022/0195	Ultratech Batching Plant	75.3
02.	SEE/AR/07/2022/0196	PTB 1- Processor Area L0	81.3
03.	SEE/AR/07/2022/0197	PTB 2- Level L2	83.4
04.	SEE/AR/07/2022/0198	MRSS Building	68.7
05.	SEE/AR/07/2022/0199	CFRM Building (Water Tank)	69.5

- Occupational Exposure Limit for noise as per OSHA is 90dB (A) TWA (8hrly).
- \*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- "A" in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is the energy mean of the noise level over a specified period.

**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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Monitored by

Varsha Pole  
Reviewed by



Ananddeep Sawant  
Authorized Signatory

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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/344	19/07/2021	18/07/2022



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## NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/07/2022/0634-0635, 0646-0647, 0421, 0622, 0420, 0644, 0643, 0623, 0640, 0641	Date of Issue	03/08/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		
Sampling Plan	SEEPLD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	28/07/2022	SEE/AR/07/2022/0634	G-N1	I	Mopa Boundary	30.0	75.4	59.3	30.2	75.5	54.2
2.	28/07/2022	SEE/AR/07/2022/0635	G-N2	I	Sharneshchavan Boundary	30.1	74.3	56.3	30.0	70.2	52.8
3.	31/07/2022	SEE/AR/07/2022/0646	G-N3	C	Nagzar	30.4	69.4	50.9	31.5	67.8	47.3
4.	31/07/2022	SEE/AR/07/2022/0647	G-N4	R	Purva Casarvamem	30.2	63.1	46.5	30.0	54.5	39.6
5.	25/07/2022	SEE/AR/07/2022/0421	G-N5	R	Chandel	30.0	69.6	43.2	30.0	60.4	38.4
6.	27/07/2022	SEE/AR/07/2022/0822	G-N6	R	Khajne Anant Porscodem	30.0	70.3	48.3	30.6	57.4	39.3
7.	25/07/2022	SEE/AR/07/2022/0420	G-N7	R	Warkhand	30.1	70.3	46.6	31.2	58.4	38.5
8.	30/07/2022	SEE/AR/07/2022/0644	G-N8	C	Rajvil Wada Tonxom	30.0	71.1	50.9	30.4	58.4	43.2
9.	30/07/2022	SEE/AR/07/2022/0643	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.4	69.6	54.2	30.1	63.2	44.0
10.	27/07/2022	SEE/AR/07/2022/0623	M-N1	R	Satarda	30.5	70.4	46.5	30.3	52.5	38.4
11.	29/07/2022	SEE/AR/07/2022/0640	M-N2	R	Dingria	30.3	68.5	47.2	30.0	57.6	36.7
12.	29/07/2022	SEE/AR/07/2022/0641	M-N3	R	Netarda	30.4	70.6	44.2	31.4	69.4	39.3

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

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

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

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

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Satvan Gawas  
 Monitored by

Shodexar  
 Varan Pole  
 Reviewed by

Arshdeep Sawant  
 Authorized Signatory



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 E-mail : satekarenviro@gmail.com • Website : www.sadekarenviro.com • CIN : U46200MH1058P1C-10000

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/564	23/07/2022	22/07/2023

Noise Level Meter No.4 (HE:001774H)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/562	23/07/2022	22/07/2023



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/151	Issue Date:	08/07/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopas, Goa			
Order / Reference	As per dated: 04/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No:	SEEPL/QSP-10	
Sampling point	Airside Outfall-2 (CV-18) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	04/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On:	04/07/2022	
Analysis Started On	04/07/2022	Analysis Completed On:	08/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.07	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	83.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

: This certificate may not be reproduced in part, without the permission of this laboratory.

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

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 Mugdha Gavade  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/152	Issue Date	08/07/2022	
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 04/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides outfall -2 (CV 13) Amberem			
Sample details	Storm Water Outfall - 2	Date of collection	04/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/07/2022	
Analysis Started On	04/07/2022	Analysis Completed On	08/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.07	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 522D-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	2.80	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	80.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

  
Mugdha Gawade  
Analyzed by

  
Versha Polo  
Reviewed By



  
Ajaydeep Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 10, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India  
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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-1689



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023
03.	BCD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023
04.	Hot Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Flat No. 01, Patel Estate, Ram Marg, Verna, P.O., Old Bellin Road, Bardez, Panaji, Goa-403 101, Goa State, India. ID : (0832) 2411322 / 2411323 • E-mail : [sdastabgoa@rediffmail.com](mailto:sdastabgoa@rediffmail.com)

SAVE WATER  
SAVE LIFE

Lab accredited by NABL & ISO Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/153	Issue Date	08/07/2022	
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 04/07/2022	Environmental Condition of Lab.	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides outfall -2 (CV 13A ) Amberem			
Sample details	Storm Water Outfall -2	Date of collection	04/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/07/2022	
Analysis Started On	04/07/2022	Analysis Completed On	08/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.90	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	77.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	36.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anand Deep Sawant*  
Anand Deep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/154	Issue Date	08/07/2022	
Name of Client	Ms. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 04/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall -5 ( Chandel )			
Sample details	Storm Water Outfall 5	Date of collection	04/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/07/2022	
Analysis Started On	04/07/2022	Analysis Completed On	08/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.59	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

*Asmita Sawant*

Asmita Sawant  
Analyzed by

*Varsha Pois*

Varsha Pois  
Reviewed By



*Ananddeep Sawant*

Ananddeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/155	Issue Date	08/07/2022	
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: 04/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall 3 - Varconda			
Sample details	Storm Water Outfall 3	Date of collection	04/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/07/2022	
Analysis Started On	04/07/2022	Analysis Completed On	08/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.53	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	18.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	39.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Asmita Sewant*

Asmita Sewant  
Analyzed by

*V. Chopdekar*

Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • DIN - U45209MH1999PTC-14991

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/208	Issue Date	13/07/2022	
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: 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 1 (Maingate)			
Sample details	Storm Water Outfall 1	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.86	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	68.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	44.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Shweta*  
Shweta Sawant  
Analyzed by

*Vansha Pole*  
Vansha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/209	Issue Date	13/07/2022	
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: 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 2 (Tulaskarwadi)			
Sample details	Storm Water Outfall 2	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

## Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.12	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	87.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	48.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Mugdha Gawade  
Analyzed by

Varsha Pole  
Reviewed By



Anandjeep Sawant  
Authorized Signatory

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Accepted by Ministry of Environment, Forest & Climate Change, Govt Of India, S. D. 697 (E)

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/008	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SWA: L11001  
SRA: L11001

Lab accredited by MoEF & CC (old) up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/232	Issue Date	13/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling Plan	SEEPLLD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 3 (Behind MCDMCC Office)			
Sample details	Storm Water Outfall 3	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	8.00	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	85.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Ananddeep Sawant  
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Gasified By Ministry of Environment, Forest & Climate Change, Govt Of India, S. D. 937 (E)

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-33/307, Plot No. 61, Hald Estate, Rishi Marg, Verna, A9, Old Bazar Road, Bandra, Porvurim, Panaji-Goa-403 101, Goa State, India. ID : (0832) 2411322 / 2411323 • E-mail : sdekar@rediffmail.com

SAVE WATER  
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Lab accredited by NIEF & CO. Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001: 2018.

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/360	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/D/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 3 Varcorida			
Sample details	Storm Water Outfall 3	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.65	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	8.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	30.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

*Mugdha*  
Mugdha Gawade  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

**HEAD OFF. & LAB :** Plot No. A-95, Road No. 18, Kisan Nagar Road, MIDC, Wagh Industrial Area, Thane - 400 604, Maharashtra State, India.  
(T) : (01 20) 2583 3321 / 2180 3422 / 2180 3323 / 2580 1024 • E-mail : oiv@sadekarenviro.com / psadekar50@gmail.com  
Certified By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O 837 (E)

**BRANCH OFF. :** 310, Dempo Towers, EDC Flats, Panaji-403 001, Goa State, India (C) : (0832) 2437048 / 2437164  
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • DIN - 114520498(1)59997(C)-1



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-302/07, Plot No. 07, Palm Estate, Palm Marg, Verem, Aho, Old Belim Road, Bantol, Porvair, Flang-Goa-403 101, Goa State, India. ☎ : (0832) 2411522 / 2411523 • E-mail : sbn@sadekarindia.com

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/361	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 4( Hot mix Plant)			
Sample details	Storm Water Outfall - 4	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.56	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H <sup>+</sup> -B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	23.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Asmita*  
Asmita Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Arandeep*  
Arandeep Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. A-99, Road No. 15, Klem Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 401 034, Maharashtra State, India.  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/362	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 3( Behind MCDMMC Office)			
Sample details	Storm Water Outfall 3	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.79	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	29.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Mugdha Gawade  
Analyzed by

Vansha Pole  
Reviewed By



Anantdeep Sawant  
Authorized Signatory

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CN - 145204MH1503PTC-10078

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : starlab@rediffmail.com

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/363	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall -2 (CV-13) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.63	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Total Dissolved Solids (TDS)	42.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Asmita*

Asmita Sawant  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Arandeep*

Arandeep Sawant  
Authorized Signatory

HEAD OFF. & LAB : Plot No. 4/85, Road No. 16, Near Naspur Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.  
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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC100070

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/008	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-209/337, Plot No. 31, Patel Estate, Near Magar, Versova Area, Old Seawoods, Borjod, Powai, Panaji Goa-403 101, Goa State, India. ID : (0832) 2411322 / 2411323 • E-mail : [stb@stbgoa.com](mailto:stb@stbgoa.com)

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/364	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall -2(CV -18) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.89	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.40	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	31.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	47.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Asmita*  
Asmita Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Arundh*  
Arundh Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-206/217, Plot No. 51, Patil Estate, Near Magar, Victoria Arts, Old Belim Road, Dombivli, Palve, Parsipada, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : sadekarenviro@gmail.com

SCALE: 1:1000  
SIGNATURE

Lab accredited by NABL & CC, Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/365	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides outfall -2 (CV-13A) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.78	-	APHA( 23 <sup>rd</sup> Edition ) 4500 HI-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	62.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	41.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Mugdha Gawade*  
Mugdha Gawade  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By

*Arandeep Sawant*  
Arandeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-200/207, Plot No. 61, Patel Estate, Reli Nagar, Verem, Ais, Old Belin Road, Bandra, Forterra, Ponal-Goa-403 101,  
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SPM/LITER  
SPM/LIFE

Lab accredited by (MOEF & CC-Vaid) up to 03.11.2022 • Certified by ISO 9001:2015 & ISO 45001:2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/356	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/OSP-10	
Sampling point	Airside Outfall -5 (Chandel )			
Sample details	Storm Water Outfall 5	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.59	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	62.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

*Asmita*

Asmita Sawant  
Analyzed by

*Vishal*

Varsha Pale  
Reviewed By



*Anand*

Anandeeep Sawant  
Authorized Signatory

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Controlled By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (E)

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E-mail : [sadekarenviro@rediffmail.com](mailto:sadekarenviro@rediffmail.com) • Website : [www.sadekarenviro.com](http://www.sadekarenviro.com) • CIN - U45201MH1989PTL

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306307, Plot No. 51, Patel Estate, Near Nagpur, Vasant, Ais, Old Bafra Road, (Near) Panwani, Panaji-Goa-403 101.  
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : startlabgoa@rediffmail.com

SRM: USTP/EP  
SRM: LIFE

Lab accredited by MoEF & CC Ward up to 03.11.2022 • Certified by ISO 9001:2015 & ISO 15001 : 2018.

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/367	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 2 (Tulaskarwadi)			
Sample details	Storm Water Outfall 2	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.93	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	53.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	38.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patal Estate, Rishi Marg, Varan, Atr, Old Bazar Road, Bantuz, Porvorim, Panaji-Goa-403 101, Goa State, India. ID : (0632) 2437045 / 243329 • E-mail : sdekarlabgoa@rediffmail.com

SAVE WATER  
SAVE LIFE

Lab accredited by NABL & CC Valid up to 01.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/368	Issue Date	21/07/2022	
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 16/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/GSP-10	
Sampling point	Landside Outfall 1 (Maignate)			
Sample details	Storm Water Outfall 1	Date of collection	16/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	16/07/2022	
Analysis Started On	16/07/2022	Analysis Completed On	21/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.71	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	59.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	41.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

*Asmita Sawant*  
Asmita Sawant  
Analyzed by

*Varsha Pola*  
Varsha Pola  
Reviewed By



*Ananddeep Sawant*  
Ananddeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



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SEAL OFFICE  
 SAME LIFE

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/225	Issue Date	13/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C 27.8	Humidity % 65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	8.99	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.89	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	36.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	78.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	15.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	5.69	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2-</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	50.00	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  
 Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Arandeep Sawant*  
 Arandeep Sawant  
 Authorized Signatory



Report No.	SEE/07/2022/225	Issue Date	13/07/2022
Order / Reference	As per dated 07/07/2022	Sample Received On	07/07/2022
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	2.36	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	11.22	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.15	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	5.33	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	15.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	5.50	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*V. Chopdekar*  
Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory



Report No	SEE/07/2022/225	Issue Date	13/07/2022
Order / Reference	As per dated 07/07/2022	Sample Received On	07/07/2022
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Anisha Parab

2. Shreya Harmalkar

Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*

Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023
02.	Hol Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	IGP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SAVE LIFE

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/226	Issue Date	13/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C 27.8	Humidity % 65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.30	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.42	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazan unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	28.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	66.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	13.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	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  
2. Shreya Harmalkar  
Analyzed by

V. Sadekar  
V. Parsha Poite  
Reviewed By



A. Anandup  
Authorized Signatory





Report No	SEE/07/2022/226	Issue Date	13/07/2022
Order / Reference	As per dated 07/07/2022	Sample Received On	07/07/2022
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 28)
15.	Nitrate as NO <sub>3</sub>	1.71	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.03	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	3.39	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	4.20	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
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*Anisha Parab*  
*Shreya Harmalkar*

*Vehapdekar*  
Varsha Pole  
Reviewed By



*Anand*  
Anand Deep Sawani  
Authorized Signatory



Report No.	SEE/07/2022/226	Issue Date	13/07/2022
Order / Reference	As per dated 07/07/2022	Sample Received On	07/07/2022
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Anisha Parab  
2. Shreya Hamalkar  
Analyzed by

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*Vehopdekar*  
Varsha Pole  
Reviewed By



*Anandeeep*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/227	Issue Date	11/07/2022	
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: 07/07/2022	Environmental Condition of Lab	Temp °C 27.8	Humidity % 85
Sampling point	Labor Colony			
Sample details	Drinking Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	11/07/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*  
Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/228	Issue Date	11/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C 27.8	Humidity % 65
Sampling point	L.S.C			
Sample details	Drinking Water	Date of collection	07/07/2022	
Sample Collected by	SEEP Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	11/07/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*V. Chopdekar*

Varsha Pole  
Reviewed By



*Anandjeep Sawant*

Anandjeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

B-308/309, Plot No. 01, Phase Estate, Reis Marg, Verem, Ato, Old Bhat Road, Bhat, Porvair, Panaji-Goa-415 101,  
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SPM: LUTTEN

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/229	Issue Date	11/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C 27.8	Humidity % 65
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	11/07/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Apardeep Sawant*

Apardeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Callbration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/231	Issue Date	11/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	85
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	11/07/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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Anisha Parab  
Analyzed by

Varsha Pole  
Reviewed By

  
Anandeev Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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SAFE LIFE

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/230	Issue Date	11/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			27.8	65
Sampling point	KMV			
Sample details	Drinking Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	11/07/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ananddeep Sawarit*

Ananddeep Sawarit  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/220	Issue Date	13/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			27.8	85
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.71	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	492.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	125.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	173.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	10.20	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed By

Varsha Pole  
Reviewed By



Ananddeep Sawant  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

ISO 9001:2015, Plot No. 81, Pater Estate, Film Nagar, Verna, A/c, Old Dahan Road, Bandra, Phoenix, Phoenix-Coc-400 101,  
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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2022/221	Issue Date	13/07/2022	
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: 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	85
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.30	-	5.5 - 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	120.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	19.63	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	39.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	4.20	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

Note: Test results related only to the sample tested.

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*Asmita*  
Asmita Sawant  
Analyzed By

*Versha Pole*  
Versha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India ID : (0832) 2437046 / 2437164  
E-mail : sadekarengro@rediffmail.com \* Website : www.sadekarengro.com \* CIN : U45209GM1999PTC000000

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/222	Issue Date	13/07/2022	
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: 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	85
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	5.95	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	288.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	74.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	75.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	6.80	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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*Nawank*  
 Shweta Sawant  
 Analyzed By

*Vchopdekar*  
 Varsha Pole  
 Reviewed By



*Arandeep*  
 Arandeep Sawant  
 Authorized Signatory

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 E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1908PTC-1007

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SPM/ LPT/ET  
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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2022/223	Issue Date	13/07/2022	
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 07/07/2022	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	07/07/2022	
Sample Collected by	SEEPL Representative	Sample Received On	07/07/2022	
Analysis Started On	07/07/2022	Analysis Completed On	13/07/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	8.79	-	6.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+B
2.	Chemical Oxygen Demand (COD)	36.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	8.10	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	11.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.20	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Ammonia	2.24	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	9.62	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	36	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E
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Note: Test results related only to the sample tested.

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1. Shweta Sawant  
2. Anisha Parab  
Analyzed By

Varsha Pole  
Reviewed By



Apurdeep Sawant  
Authorized Signatory

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E-mail : sde@adekarenviro.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-10379

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
02.	Hot Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022
03.	COD Digester	Q/D19	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	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001  
SAP: LITE

List certified by MoEF & CG India up to 01-11-2015 & Certified by ISO 9001:2015 & ISO 15001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Mopa Boundary (Goa State) (G-A1)				
Average Ambient Temperature (°C)	30.3	Average Humidity (%)	75	Latitude	N 15°45'51.1"
Average Wind Speed [km/hr]	1.4	Average Wind direction (Deg)	224	Longitude	E 73°56'32.4"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0024	21.85	12.89	<3.00	<6.00	0.02	35.80
2	04/08/2022	SEE/AR/08/2022/0083	25.45	7.86	<3.00	<6.00	0.05	33.88
3	08/08/2022	SEE/AR/08/2022/0147	22.37	6.90	<3.00	<6.00	0.03	29.81
4	11/08/2022	SEE/AR/08/2022/0181	28.62	11.06	<3.00	<6.00	0.06	39.93
5	15/08/2022	SEE/AR/08/2022/0238	22.84	5.24	<3.00	<6.00	0.02	28.47
6	18/08/2022	SEE/AR/08/2022/0315	18.45	6.40	<3.00	<6.00	0.03	26.87
7	22/08/2022	SEE/AR/08/2022/0351	25.03	8.15	<3.00	<6.00	0.03	33.64
8	25/08/2022	SEE/AR/08/2022/0455	26.35	7.78	<3.00	<6.00	0.05	34.59
9	29/08/2022	SEE/AR/08/2022/0504	27.42	9.23	<3.00	<6.00	0.02	37.16
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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
- : This certificate may not be reproduced in part, without the permission of this laboratory.
- : 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) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Agardeep Sawant  
Authorized Signatory

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN : U14520GJ11000971C-1100097



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.2871-DTG-2020)	LES-CCL/FF/MF/SC/1308	24/09/2021	23/09/2022

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	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

CO METER

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



# Sadekar Enviro Engineers Pvt. Ltd.

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CPA 2011  
 SAE 02

ISO accredited by NABL & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemchadvan Boundary(Goa State) (G-A2)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	73	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	243	Longitude	E 73°49'21.5"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0025	20.42	6.15	<3.00	<6.00	0.02	28.12
2	04/08/2022	SEE/AR/08/2022/0084	17.35	5.16	<3.00	<6.00	0.03	22.80
3	08/08/2022	SEE/AR/08/2022/0148	16.59	8.57	<3.00	<6.00	0.02	25.47
4	11/08/2022	SEE/AR/08/2022/0182	21.54	7.73	<3.00	<6.00	0.03	30.31
5	15/08/2022	SEE/AR/08/2022/0239	19.28	7.15	<3.00	<6.00	0.03	26.48
6	18/08/2022	SEE/AR/08/2022/0316	15.28	5.04	<3.00	<6.00	0.02	22.76
7	22/08/2022	SEE/AR/08/2022/0352	21.94	9.02	<3.00	<6.00	0.03	31.67
8	25/08/2022	SEE/AR/08/2022/0456	11.09	5.41	<3.00	<6.00	0.02	17.03
9	29/08/2022	SEE/AR/08/2022/0505	22.32	5.28	<3.00	<6.00	0.03	28.63
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Akash Pattade  
 2) Pandurang Gawas  
 Analyzed by

Varsha Pola  
 Reviewed by



Apantdeep Sawant  
 Authorized Signatory

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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.2881-DTH-2020)	LES-CCL/FF/MF/SC/1307	24/09/2021	23/09/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 992-DT1-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FP5 - APM 550 MINI	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



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SEE/01/2022  
30/08/2022

Lab. accredited by MOEF & CPCB (Lab. No. 1623/11/2022) & Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	30.0	Average Humidity (%)	72	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	265	Longitude	E 73°53'14.22"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0026	22.00	12.52	<3.00	<6.00	0.03	34.93
2	04/08/2022	SEE/AR/08/2022/0085	17.75	8.11	<3.00	<6.00	0.05	26.44
3	08/08/2022	SEE/AR/08/2022/0149	10.56	5.16	<3.00	<6.00	0.02	15.81
4	11/08/2022	SEE/AR/08/2022/0183	19.48	6.82	<3.00	<6.00	0.03	26.38
5	15/08/2022	SEE/AR/08/2022/0240	15.17	7.40	<3.00	<6.00	0.02	24.04
6	18/08/2022	SEE/AR/08/2022/0317	14.43	6.11	<3.00	<6.00	0.03	22.16
7	22/08/2022	SEE/AR/08/2022/0353	20.02	5.45	<3.00	<6.00	0.03	26.00
8	25/08/2022	SEE/AR/08/2022/0457	19.75	5.78	<3.00	<6.00	0.02	25.87
9	29/08/2022	SEE/AR/08/2022/0506	17.79	6.53	<3.00	<6.00	0.03	24.85
NAAQS Limits*			100	60	80	80	4	+
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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.

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2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Anandhep Sawant  
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E-mail: sodekar@rediffmail.com • Website: www.sadekarenviro.com • CIN - L15320MH1998PTC-1099

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. 1719-DTI-2012)	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. 983-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3771	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
2006:2008

Lab. accredited by NABL & ISO 15189:2013 • Certified by ISO 9001:2015 & ISO 15189:2013

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Gasarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	29.8	Average Humidity (%)	74	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	235	Longitude	E 73°50'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0027	19.17	5.47	<3.00	<6.00	0.03	25.37
2	04/08/2022	SEE/AR/08/2022/0086	20.08	9.76	<3.00	<6.00	0.06	30.21
3	08/08/2022	SEE/AR/08/2022/0150	23.11	11.25	<3.00	<6.00	0.03	34.81
4	11/08/2022	SEE/AR/08/2022/0184	15.69	7.44	<3.00	<6.00	0.02	23.62
5	15/08/2022	SEE/AR/08/2022/0241	17.92	6.03	<3.00	<6.00	0.03	24.45
6	18/08/2022	SEE/AR/08/2022/0318	11.56	5.16	<3.00	<6.00	0.03	21.87
7	22/08/2022	SEE/AR/08/2022/0354	16.88	6.49	<3.00	<6.00	0.02	23.80
8	25/08/2022	SEE/AR/08/2022/0458	11.77	6.03	<3.00	<6.00	0.02	18.55
9	29/08/2022	SEE/AR/08/2022/0507	15.19	7.58	<3.00	<6.00	0.03	23.42
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			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.

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E-mail : sadekarenviro@gmail.com • Website : www.sadekarenviro.com • QR : U46209MH159B1TC-1159

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. 1456-DTD-2009)	LES-CCL/FF/MF/SC/1725	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler ( SR NO. 299-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/S084	13/07/2022	12/07/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT 114)	20/11/2021	19/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SEE/0001  
 SEE/101

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/O GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porcodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	74	Latitude	N 15°40'30.0"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	265	Longitude	E 73°46'21.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0028	19.42	5.99	<3.00	<6.00	0.02	25.72
2	04/08/2022	SEE/AR/08/2022/0087	14.84	6.74	<3.00	<6.00	0.05	22.36
3	08/08/2022	SEE/AR/08/2022/0151	20.63	8.32	<3.00	<6.00	0.03	29.61
4	11/08/2022	SEE/AR/08/2022/0185	18.19	10.12	<3.00	<6.00	0.02	28.58
5	15/08/2022	SEE/AR/08/2022/0242	21.52	9.48	<3.00	<6.00	0.05	30.12
6	18/08/2022	SEE/AR/08/2022/0319	14.87	5.45	<3.00	<6.00	0.03	20.65
7	22/08/2022	SEE/AR/08/2022/0355	21.70	5.36	<3.00	<6.00	0.02	27.88
8	25/08/2022	SEE/AR/08/2022/0459	20.11	5.24	<3.00	<6.00	0.03	25.85
9	29/08/2022	SEE/AR/08/2022/0508	17.96	6.86	<3.00	<6.00	0.02	26.00
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	-
<b>Units</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Akash Patil  
 2) Paridurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Apardeep 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 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/1717	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS- APM 550 MINI	LES-CCL/FF/RF/SC/5087	13/07/2022	12/07/2023

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



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab. accredited by MoEF & CD Valid up to 03.11.2025 \* Certified by ISO 9001:2015 & ISO 45001 :2018

20170-1111000

20170-010

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Terxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	29.7	Average Humidity (%)	72	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	235	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0029	17.22	6.40	<3.00	<6.00	0.03	24.60
2	04/08/2022	SEE/AR/08/2022/0088	16.72	10.56	<3.00	<6.00	0.02	27.76
3	08/08/2022	SEE/AR/08/2022/0152	24.49	5.66	<3.00	<6.00	0.02	30.68
4	11/08/2022	SEE/AR/08/2022/0186	17.58	10.81	<3.00	<6.00	0.03	28.56
5	15/08/2022	SEE/AR/08/2022/0243	13.20	7.86	<3.00	<6.00	0.02	21.25
6	18/08/2022	SEE/AR/08/2022/0320	20.18	7.07	<3.00	<6.00	0.03	27.98
7	22/08/2022	SEE/AR/08/2022/0356	13.83	6.07	<3.00	<6.00	0.03	20.36
8	25/08/2022	SEE/AR/08/2022/0460	14.15	5.28	<3.00	<6.00	0.02	19.45
9	29/08/2022	SEE/AR/08/2022/0509	15.87	6.24	<3.00	<6.00	0.02	25.76
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 08)	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) Akash Pattade  
2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Apardeep Sawant  
Authorized Signatory

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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 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1725	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 03-DTA-2017)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS – AL 112	LES-CCL/FF/PM/SC/1671	13/07/2022	12/07/2023

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



# Sadekar Enviro Engineers Pvt. Ltd.

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SEPL/08/2022  
 SEEPL/2022

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/O GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

AMBIENT AIR LOCATION			
Location of ambient air station	Salarda(Maharashtra State)(M-A1)		
Average Ambient Temperature (°C)	29.7	Average Humidity (%)	71
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	254
Instruments Used	FPS(APM-550), RDS(APM-160) & GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0030	13.87	8.36	<3.00	<6.00	0.02	22.63
2	04/08/2022	SEE/AR/08/2022/0089	18.62	7.11	<3.00	<6.00	0.03	26.43
3	08/08/2022	SEE/AR/08/2022/0153	12.00	5.49	<3.00	<6.00	0.02	18.05
4	11/08/2022	SEE/AR/08/2022/0187	16.46	8.48	<3.00	<6.00	0.03	25.03
5	15/08/2022	SEE/AR/08/2022/0244	14.36	5.74	<3.00	<6.00	0.02	20.05
6	18/08/2022	SEE/AR/08/2022/0321	15.48	6.69	<3.00	<6.00	0.02	22.67
7	22/08/2022	SEE/AR/08/2022/0357	17.33	5.11	<3.00	<6.00	0.03	22.65
8	25/08/2022	SEE/AR/08/2022/0461	11.18	5.36	<3.00	<6.00	0.02	16.59
9	29/08/2022	SEE/AR/08/2022/0510	23.57	7.49	<3.00	<6.00	0.03	31.77
NAAQS Limits*			100	60	80	80	4	-
Units			ug/ m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	mg/m <sup>3</sup>	ug/m <sup>3</sup>
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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  
 : This certificate may not be reproduced in part, without the permission of this laboratory.  
 : 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) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Agandeep 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 (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. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS -APM 550 MINI	LES-CCL/FF/RF/SC/5083	13/07/2022	12/07/2023

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



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- CEIS 121(SR NO.01-DTB-2017)	-	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 110-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	E/FF/3540	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



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NABL & CEI valid up to 03.11.2023 • Certified by (ISO 9001:2015 & ISO 45001:2018)

ISO 9001:2015  
 ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	30/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	August 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	1.5	Average Humidity (%)	72	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	243	Longitude	E 73°50'48.0"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/08/2022	SEE/AR/08/2022/0032	10.04	5.86	<3.00	<6.00	0.03	16.37
2	04/08/2022	SEE/AR/08/2022/0091	18.95	8.03	<3.00	<6.00	0.05	27.14
3	08/08/2022	SEE/AR/08/2022/0155	21.21	6.07	<3.00	<6.00	0.02	27.73
4	11/08/2022	SEE/AR/08/2022/0189	16.45	7.82	<3.00	<6.00	0.03	24.33
5	15/08/2022	SEE/AR/08/2022/0246	20.70	6.90	<3.00	<6.00	0.02	27.71
6	18/08/2022	SEE/AR/08/2022/0323	14.86	5.24	<3.00	<6.00	0.03	20.23
7	22/08/2022	SEE/AR/08/2022/0359	15.16	8.48	<3.00	<6.00	0.05	24.09
8	25/08/2022	SEE/AR/08/2022/0463	16.41	5.49	<3.00	<6.00	0.02	22.33
9	29/08/2022	SEE/AR/08/2022/0512	18.54	8.77	<3.00	<6.00	0.03	28.07
NAAQS Limits*			100	60	80	80	4	-
Units			ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	mg/m <sup>3</sup>	ug/m <sup>3</sup>
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) Akash Pallade  
 2) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Anandheep 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 450 BL(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. 105-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/5085	13/07/2022	12/07/2023

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



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Lab Accredited by MAF (S-CC 598) dt: 06/07/2022. A Certified by ISO 9001:2015 & ISO 14001:2015

MEMPHIS

STATE

AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/08/2022/0190	Date of Issue	17/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/08/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	16/08/2022	Analysis Completed On		17/08/2022	

### AMBIENT AIR LOCATION

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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Susmita Kapdoskar  
Analyzed by

Varsha Pole  
Reviewed by



Ananddeep Sawant  
Authorized Signatory

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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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 14001  
ISO 9001

Environmental by MOEF & CPCB India up to 03/11/2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/08/2022/0191	Date of issue	17/08/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/08/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	16/08/2022	Analysis Completed On		17/03/2022	

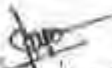
## AMBIENT AIR LOCATION

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.  
 : This certificate may not be reproduced in part, without the permission of this laboratory.  
 : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

  
Susmita Kapdoskar  
Analyzed by

  
Varsha Pole  
Reviewed by



  
Ananddeep Sawant  
Authorized Signatory

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E-mail : satekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - 146200MH1002PTC-18

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



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CMA (L1161)  
CMA (L1161)

Lab Accredited by NABL & CCNAB up to 15-11-2023 & Certified by ISO 6011:2015 & ISO 4801 : 2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/08/2022/0192	Date of Issue	17/08/2022		
Name of Client	M/s Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	11/08/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	16/08/2022	Analysis Completed On		17/08/2022	

## AMBIENT AIR LOCATION

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.

: This certificate may not be reproduced in part, without the permission of this laboratory.

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

Susmita Kapdeskar  
Analyzed by

Varsha Pole  
Reviewed by



Apurdeep Sawant  
Authorized Signatory

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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	OV5 Sampler	101-DTD-2014	EI/FF/3523	18/07/2022	17/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

ISO 9001:2015, ISO No. 71, 74th Estate, Poo Marg, Verem, Alto, Old Delhi Road, Bardez, Porvorim, Panaji-Goa-403 101.

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Laboratory certified by NABL & ISO 17025 up to 03/11/2023 & Certified by ISO 14001:2015 & ISO 45001:2018

www.seepl.com

SEEPLIFE

## NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/08/2022/0513-0514, 0489-0490, 0465, 0486, 0464, 0521, 0523, 0486, 0524, 0522	Date of Issue	03/09/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	29/08/2022	SEE/AR/08/2022/0513	G-N1	I	Mopa Boundary	30.1	74.2	57.2	30.0	73.2	52.8
2.	29/08/2022	SEE/AR/08/2022/0514	G-N2	I	Shamechadvan Boundary	30.3	73.5	58.1	30.1	71.6	53.7
3.	28/08/2022	SEE/AR/08/2022/0489	G-N3	C	Nagzar	30.0	68.1	51.3	30.8	66.4	48.8
4.	28/08/2022	SEE/AR/08/2022/0490	G-N4	R	Purva Casarvamem	30.0	57.5	47.9	30.2	55.2	38.8
5.	25/08/2022	SEE/AR/08/2022/0465	G-N5	R	Chandel	30.1	66.3	44.7	30.3	61.1	39.2
6.	26/08/2022	SEE/AR/08/2022/0485	G-N6	R	Khaje Amere Porcodem	30.4	72.1	46.8	31.1	59.3	39.5
7.	25/08/2022	SEE/AR/08/2022/0464	G-N7	R	Warkhand	30.5	71.6	45.4	32.3	60.2	39.9
8.	30/08/2022	SEE/AR/08/2022/0521	G-N8	C	Rajvil Wade Torxem	30.0	73.6	52.6	30.0	68.1	46.8
9.	31/08/2022	SEE/AR/08/2022/0523	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvam	30.0	70.1	56.6	30.5	67.1	48.4
10.	28/08/2022	SEE/AR/08/2022/0486	M-N1	R	Salarda	30.2	68.2	44.2	30.0	58.8	37.2
11.	31/08/2022	SEE/AR/08/2022/0524	M-N2	R	Dingra	30.0	69.3	46.6	30.0	59.2	39.3
12.	30/08/2022	SEE/AR/08/2022/0522	M-N3	R	Netarda	30.2	74.5	48.4	30.3	70.3	38.5

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

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

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

- 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) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing. A "decibel" is a unit in which noise is measured.
- "A" in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is 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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- : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report

Sahdev Galwas  
Monitored by

Varsha Pole  
Reviewed by



Anand Deep Sawant  
Authorized Signatory

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Gated by Ministry of Environment, Forest & Climate Change, New Delhi (India) & ISO 17025

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E-mail : sadekarenviro@gmail.com • Website : www.sadekarenviro.com • CIN : U15200MH1006PTC 11



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/564	23/07/2022	22/07/2023

Noise Level Meter No.4 (HE:001774H)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/562	23/07/2022	22/07/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by MUEF & CO Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

SEVA: LIFETIME  
 TRUST LIFE

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/237	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall -3 Varconda			
Sample details	Storm Water Outfall 3	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.94	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	29.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Mughna Gawade*  
 Mughna Gawade  
 Analyzed by

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Anandeeep Sawant*  
 Anandeeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/185	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Land side Outfall 1( Mangate)			
Sample details	Storm Water Outfall 1	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.95	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	50.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeev Sawant*  
Anandeev Sawant  
Authorized Signatory

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Qualified By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 357 (E)

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SFW-11778  
SFA-076

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/222	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall 2 (CV-13) Amberam			
Sample details	Storm Water Outfall 2	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.32	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	75.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Total Dissolved Solids (TDS)	44.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Anandjeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/223	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LDIFMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall-2 (CV-13A) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.15	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C-3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	80.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-C & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed by

*Vaishna Pole*  
Vaishna Pole  
Reviewed By



*Apardeep Sawant*  
Apardeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/224	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall-2 (CV-18) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.97	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	45.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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

Mugdha Gawade  
Analyzed by

Varsha Pole  
Reviewed By



Anurdeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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SRMCE/11/11/11  
SRMCE/11/11/11

Lab. accredited by M&T & CC. Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/231	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 5( Chandel)			
Sample details	Storm Water Outfall 5	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

## Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.05	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	53.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	41.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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

*Sawant*  
Asmita Sawant  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Sawant*  
Anandeev Sawant  
Authorized Signatory

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BRANCH OFF : 310, Dempo Towers, EDC Palto, Panaji-403 001 - Goa State, India ☎ : (0832) 2437048 / 2437164  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-301/017, Plot No. 01, Palm Estate, Rest Margos, Veras, Alto, Old Baram Road, Bantez, Panaji, Panaji-Goa-403 101  
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SAVE WATER  
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Lab accredited by MJEF & CC Valid up to 03/11/2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/232	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LDFMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall- 2 ( Tulaskarwadi)			
Sample details	Storm Water Outfall 2	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


## Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.10	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS-3025 (Part-44)
4.	Total Suspended Solids (TSS)	29.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Total Dissolved Solids (TDS)	36.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.


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Mugdha Gawade  
Analyzed by

  
Varsha Pole  
Reviewed By



  
Arunjeep Sawant  
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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-114379

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/235	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/GSP-10	
Sampling point	Airsides Outfall-4 ( Hot mix Plant)			
Sample details	Storm Water Outfall 4	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.86	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	63.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	48.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Mugdha Gawade  
Analyzed by

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Anudeep Sawani  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/008	11/11/2021	11/11/2022



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SAVE WATER  
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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/08/2022/236	Issue Date	16/08/2022	
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 08/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	64
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/GSP-10	
Sampling point	Lanside Outfall -3 (Behind MCDMCC Office)			
Sample details	Storm Water Outfall 3	Date of collection	08/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/08/2022	Analysis Completed On	16/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.63	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	67.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

  
Varsha Pole  
Reviewed By



  
Anandeeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



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NAAC U-1000  
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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/133	Issue Date	11/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022	
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

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	0.68	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	48.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	147.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl	30.03	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 SF
11.	Total Hardness as CaCO <sub>3</sub>	80.00	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  
Analyzed by

Varshadekar  
Varsha Pola  
Reviewed By

Anandeeep Sawant  
Authorized Signatory



Report No.	SEE/08/2022/133	Issue Date	11/08/2022
Order / Reference	As per dated 04/08/2022	Sample Received On	04/08/2022
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4600 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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	20.84	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.14	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	6.78	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	18.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	8.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

Vishopdekar  
Varshe Pole  
Reviewed By

Ananddeep Sawant  
Authorized Signatory



Report No.	SEE/08/2022/133	Issue Date	11/08/2022
Order / Reference	As per dated 04/08/2022	Sample Received On	04/08/2022
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

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*Shreya Harmalkar*

*Vishopdekar*  
Varsha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001  
ISO 14001

Lab accredited by NSEF & CC (Valid till 30.11.2023) & Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/132	Issue Date	11/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 66
Sampling Point	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.09	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.45	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	28.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	64.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	17.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>-2</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	30.00	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



Anandjeep Sawant  
Authorized Signatory



Report No.	SEE/08/2022/132	Issue Date	11/08/2022
Order / Reference	As per dated 04/08/2022	Sample Received On	04/08/2022
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	1.66	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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 <sup>rd</sup> 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	2.42	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	6.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	3.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

V. Chopdekar  
Varsha Pole  
Reviewed By

Andrideep Sawant  
Authorized Signatory



Report No.	SEE/08/2022/132	Issue Date	11/08/2022
Order / Reference	As per dated 04/08/2022	Sample Received On	04/08/2022
Analysis Started On	04/08/2022	Analysis Completed On	11/08/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

Varsha Pole  
Reviewed By



Anantjeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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 Goa State, India. ☎ : (0832) 2411021 / 2411533 • E-mail : suat@goe@rediffmail.com  
 Lab accredited by MoEF & CC Valid up to 03-11-2023 • Certified by ISO 9001:2015 & ISO14001:2015

SRV/08/22  
 08/10/22

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/127	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 66
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coll at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
 Anisha Parab  
 Analyzed by

*Varsha Fole*  
 Varsha Fole  
 Reviewed By



*Arundeep Sawant*  
 Arundeep Sawant  
 Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

B-30/207, Plot No. B1, Patel Estate, Reis Miguel, Varan, A/10, Old India Road, Bandra, Powai, Panaji-Goa-405 101  
Goa State, India. ☎ : (0832) 243132 / 2431322 • E-mail : sadekar@seep.com

ISO 9001:2015  
ISO 14001

Lab. accredited by MOEF & CG. Valid up to 30.11.2023 • Certified by ISO 9001:2015 & 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/128	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling point	L.S.C			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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ISO 9001:2015  
ISO 14001:2015

Lab accredited by NVEF & CGWBH (DIN) 05.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/129	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 66
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ananddeep Sawant*

Ananddeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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 Lab accredited by MOEF & CC-1086 (up to 31.11.2023) & Certified by ISO 9001:2015 & ISO 45001 : 2018

ISO 9001:2015  
 ISO 45001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/130	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling point	Hot Mix Plant (KMV)			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*  
 Anisha Parab  
 Analyzed by

*Versha Pole*  
 Versha Pole  
 Reviewed By



*Arun Jeep Sawant*  
 Arun Jeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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Labs accredited by MoEF & CC, Verd. In (1) 03-11-2022 & Certified by ISO/IEC 17025 & ISO-9001 : 2015

ISO/IEC 17025

ISO-9001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/131	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling point	Megawide Labor Colony			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Anandeeep Sawant*

Anandeeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator ( 37 °C )	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C )	Q/004	T2021/08/071	26/08/2021	26/08/2022
03.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



# Sadekar Enviro Engineers Pvt. Ltd.

B-30/2007, Plot No. 01, Palm Estate, Reis Miguel, Verem, Alto, Old Bafim Road, Bantec, Porvorim, Panaji-Goa-403 101

Goa State India. (T) : (0832) 2411327 / 2411328 \* E-mail : [sadekar@rediffmail.com](mailto:sadekar@rediffmail.com)

Lab accredited by MoEP & CO. Valid until 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45001:2018

ISO 9001:2015

ISO 45001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/134	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C 28.3	Humidity % 66
Sampling point	KMV			
Sample details	Drinking Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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

Anisha Parab  
Analyzed by

Versha Pole  
Reviewed By



Anand Deep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2021/08/070	26/08/2021	26/08/2022
02.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
03..	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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B-305/307, Plot No. 61, 7th & 8th, Near Maggo, Verem, Aho, Old Baram Road, Barac, Tharwad, Pimpri Goa-405 101  
Goa State, India | T : (0832) 2437022 / 2437023 • E-mail : sadelabgoa@rediffmail.com

ISO 14001  
ISO 9001

Lab established by SEE & CIL Varad on 23.11.2022 • Certified by ISO 9001:2015 & ISO 14001 : 2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/654	Issue Date	05/09/2022	
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 30/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	30/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	30/08/2022	
Analysis Started On	30/08/2022	Analysis Completed On	05/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.34	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ B
2.	Chemical Oxygen Demand (COD)	544.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	128.52	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	109.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	11.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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*Mugdha*  
Mugdha Gawade  
Analyzed By

*V. Chopdekar*  
Varsha Pole  
Reviewed By



*Anandjeep*  
Anandjeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/207, Plot No. 87, Panch Enclave, Titus Nagar, Vasant, A/B, Old Baram Road, Bandra, Powai, Mumbai, Panaji-Goa-403 101,  
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : info@sadekarenviro.com

ISO 9001:2015  
ISO 14001

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/855	Issue Date	05/09/2022	
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 30/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	30/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	30/08/2022	
Analysis Started On	30/08/2022	Analysis Completed On	05/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	8.22	-	5.5 - 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	132.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	24.90	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	66.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.20	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-D & G

**Note:** Test results related only to the sample tested.

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

*Mugdha*  
Mugdha Gawade  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

**HEAD OFF & LAB :** Plot No. 87, Panch Enclave, Titus Nagar Road, M.J.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.  
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Gasated by Member of Environment Forum & Council Change, Govt of India, S. C. 807 (I)

**BRANCH OFF :** 310, Dempo Towers, EDC Poldo, Panaji-403 001, Goa State, India ☎ : (0832) 2437666 / 2437664  
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • Ctn - U45206MH1908PTC-116299

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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2016 LIMITED  
 37% C.U.E

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/125	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.07	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	364.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	95.20	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	103.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	6.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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

*Shweta Sawant*  
 Shweta Sawant  
 Analyzed By

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Angad Deep Sawant*  
 Angad Deep Sawant  
 Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2021/09/001	04/09/2021	04/09/2022
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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/307, Plot No. 111, Fasal Estate, Pusa Marg, Verem, An, Old Balem Road, Bunder, Ferozpur, Ponda-Goa-403 101  
Goa State. India. (T) : (0832) 2411922 / 2411123 • E-mail : sadeskar@rediffmail.com

ISO 9001:2015  
CRM/CMC

Labs accredited by NABL & ISO 14001 up to 03.11.2022 • Certified by ISO 1001:2015 & ISO 45001:2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2022/126	Issue Date	10/08/2022	
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 04/08/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	04/08/2022	
Sample Collected by	SEEPL Representative	Sample Received On	04/08/2022	
Analysis Started On	04/08/2022	Analysis Completed On	10/08/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.42	-	5.5 - 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.60	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	14.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.40	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Ammonia	1.68	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	7.00	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

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

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

1. Shweta Sawant  
2. Anisha Parab  
Analyzed By

*Shweta*  
*Anisha*

*Vishopdekar*  
Varsha Pola  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

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BRANCH OFF : 210, Usharba Towers, 133C, Parler, Panaji-403 001, Goa State, India (T) : (0832) 2437048 + 2437 164  
E-mail : sadeskarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN : U95209MH110981PLC1100000

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/052	2021/09/001	04/09/2021	04/09/2022
02.	Hot Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022
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	T2021/08/070	26/08/2021	26/08/2022
06.	Microbiological Incubator (44.5 °C)	Q/004	T2021/08/071	26/08/2021	26/08/2022
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021	26/08/2022
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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.2871-DTG-2020)	LES-CCL/FF/MF/SC/1308	24/09/2021	23/09/2022

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	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

B-200/307, P/4 No. 01, P/401 Estate, P/401 Marg, Verna Area, Old Datta Road, Borda, Panaji, Panna-Goa-403 101.  
 Goa (India). ID : 0002/2113224/2113224 \* E-mail : sadeskar@rediffmail.com  
 Lab accredited by MoEF & CC (Valid up to 03/11/2023) \* Certified by ISO 9001:2015 & ISO 14001:2015

ISO 9001  
 ISO 14001

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o CMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Shemehadvan Boundary (Goa State) (G-A2)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	68	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	235	Longitude	E 73°49'21.5"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0002	21.34	6.31	<3.00	<6.00	0.02	27.83
2	06/09/2022	SEE/AR/09/2022/0052	26.35	5.36	<3.00	<6.00	0.03	32.21
3	08/09/2022	SEE/AR/09/2022/0060	25.94	5.57	<3.00	<6.00	0.03	31.62
4	12/09/2022	SEE/AR/09/2022/0244	23.41	6.20	<3.00	<6.00	0.02	29.92
5	15/09/2022	SEE/AR/09/2022/0332	19.05	7.36	<3.00	<6.00	0.03	26.99
6	19/09/2022	SEE/AR/09/2022/0388	34.87	8.23	<3.00	<6.00	0.03	43.54
7	22/09/2022	SEE/AR/09/2022/0473	32.12	10.98	<3.00	<6.00	0.05	42.77
8	26/09/2022	SEE/AR/09/2022/0523	21.34	7.61	<3.00	<6.00	0.02	29.52
9	29/09/2022	SEE/AR/09/2022/0603	20.36	6.24	<3.00	<6.00	0.03	28.60
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Method			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Akash Pattade  
 2) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Anand Deep 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 (SR NO.2881-DTH-2020)	LES-CCL/FF/MF/SC/1307	24/09/2021	23/09/2022

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	LES-CCL/FF/RF/SC/3768	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

Plot No. 51, Phase Estate, New Nagar, Wagle, A-0, Chhatrapati Road, Baramulla, Country Park (G-103) 101,  
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ISO 9001  
ISO 14001

Lab accredited by NABL & CC (Valid up to 03/11/2023) \* Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Nagzar (Goa State) (G-A3)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	68	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	221	Longitude	E 73°53'14.22"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0003	16.87	5.84	<3.00	<6.00	0.03	22.56
2	05/09/2022	SEE/AR/09/2022/0042	18.02	6.94	<3.00	<6.00	0.03	25.70
3	08/09/2022	SEE/AR/09/2022/0061	23.31	8.44	<3.00	<6.00	0.02	32.49
4	12/09/2022	SEE/AR/09/2022/0245	20.75	7.90	<3.00	<6.00	0.02	29.40
5	15/09/2022	SEE/AR/09/2022/0333	15.70	8.48	<3.00	<6.00	0.03	24.72
6	19/09/2022	SEE/AR/09/2022/0389	20.82	5.28	<3.00	<6.00	0.02	26.52
7	22/09/2022	SEE/AR/09/2022/0474	18.63	5.70	<3.00	<6.00	0.03	24.66
8	26/09/2022	SEE/AR/09/2022/0524	18.28	6.65	<3.00	<6.00	0.02	25.39
9	29/09/2022	SEE/AR/09/2022/0604	75.48	22.33	4.01	7.30	0.06	101.53
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			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) Akash Pattade  
2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Anandjeep 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 (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

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



# Sadekar Enviro Engineers Pvt. Ltd.

S-206/127, Plot No. 51, Patel Estate, Near Megawide, Wem, Ahi, Old Seelji Road, Bardez, Panaji, Porcup Goa-403 101.

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Lab. accredited by NABL & ISO 15189 up to 31.12.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

FORM 13/1/21

ISSUE DATE

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	67	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	265	Longitude	E 73°50'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0004	24.64	9.32	<3.00	<6.00	0.05	30.12
2	05/09/2022	SEE/AR/09/2022/0043	22.12	8.17	<3.00	<6.00	0.03	30.76
3	08/09/2022	SEE/AR/09/2022/0062	16.74	6.21	<3.00	<6.00	0.02	23.73
4	12/09/2022	SEE/AR/09/2022/0246	18.98	5.35	<3.00	<6.00	0.03	24.40
5	16/09/2022	SEE/AR/09/2022/0353	16.46	6.85	<3.00	<6.00	0.03	23.35
6	19/09/2022	SEE/AR/09/2022/0390	32.11	9.48	<3.00	<6.00	0.05	41.56
7	22/09/2022	SEE/AR/09/2022/0475	29.42	7.26	<3.00	<6.00	0.02	37.15
8	26/09/2022	SEE/AR/09/2022/0525	23.63	5.72	<3.00	<6.00	0.03	29.65
9	29/09/2022	SEE/AR/09/2022/0605	19.18	12.07	<3.00	<6.00	0.02	31.49
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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) Akash Pattade  
2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Arandeep Sawant  
Authorized Signatory

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Sanctioned by Ministry of Environment, Forest & Climate Change, Govt Of India. G. O. 257 (E).

BRANCH OFF : 210, Dimple Towers, EDC Patto, Panaji-404 001, Goa State, India (T) : (0832) 2437100 / 2437104

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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.2893-DTJ-2020)	LES-CCL/FF/MF/SC/1305	24/09/2021	23/09/2022

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	LES-CCL/FF/RF/SC/3770	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

B-300/302, Plot No. 11, Road No. 1, Near Ekal, Red Meadows, Zone-1, Mid. C-D, Baram Road, Banker, Phosar, Panaji-Goa-403 101  
 Goa (India) Pin - (0032) 2411229 / 2411230 • E-mail - [info@sadekar.com](mailto:info@sadekar.com)

ISO 9001  
 ISO 14001

LAB certified by NABL & CPC (No. 14113, 11 2015) • Certified by ISO 9001:2015 & ISO 14001:2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.4	Average Humidity (%)	66	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.3	Average Wind direction (Deg)	243	Longitude	E 73°46'21.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0005	14.60	5.23	<3.00	<6.00	0.02	19.87
2	05/09/2022	SEE/AR/09/2022/0044	11.49	6.36	<3.00	<6.00	0.03	17.93
3	08/09/2022	SEE/AR/09/2022/0063	27.32	5.11	<3.00	<6.00	0.02	28.56
4	12/09/2022	SEE/AR/09/2022/0247	16.28	7.32	<3.00	<6.00	0.03	23.88
5	15/09/2022	SEE/AR/09/2022/0335	21.43	6.99	<3.00	<6.00	0.02	28.05
6	19/09/2022	SEE/AR/09/2022/0391	27.54	8.65	<3.00	6.34	0.03	35.32
7	22/09/2022	SEE/AR/09/2022/0476	30.83	11.48	<3.00	<6.00	0.02	42.59
8	26/09/2022	SEE/AR/09/2022/0526	23.94	5.16	<3.00	<6.00	0.03	29.67
9	29/09/2022	SEE/AR/09/2022/0606	64.48	20.09	8.27	7.54	0.11	202.11
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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

1) Akash Pattade  
 2) Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Anandeeep 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 (SR NO.2892-DTJ-2020)	LES-CCL/FF/MF/SC/1309	24/09/2021	23/09/2022

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2892-DTJ-2020)	-	23/09/2022	22/00/2023

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

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



# Sadekar Enviro Engineers Pvt. Ltd.

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 New Bazar, Puna - 411 002 / 2411224 • E-mail : sadekarenviro@gmail.com  
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2022/11/10  
 309/10

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	68	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	217	Longitude	E 73°52'50.2"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0006	20.61	6.28	<3.00	<6.00	0.03	27.62
2	05/09/2022	SEE/AR/09/2022/0045	21.34	7.40	<3.00	<6.00	0.02	29.38
3	08/09/2022	SEE/AR/09/2022/0064	19.97	5.49	<3.00	<6.00	0.03	25.67
4	12/09/2022	SEE/AR/09/2022/0248	17.08	7.40	<3.00	<6.00	0.03	24.80
5	15/09/2022	SEE/AR/09/2022/0336	20.47	6.24	<3.00	<6.00	0.02	27.42
6	19/09/2022	SEE/AR/09/2022/0392	25.06	5.41	<3.00	<6.00	0.02	30.80
7	22/09/2022	SEE/AR/09/2022/0477	38.05	9.90	4.06	6.47	0.05	48.82
8	26/09/2022	SEE/AR/09/2022/0527	24.92	6.11	<3.00	<6.00	0.03	31.69
9	29/09/2022	SEE/AR/09/2022/0607	14.14	7.98	<3.00	<6.00	0.02	22.42
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 08)	IS 5182 (Part 10)	IS 5182 (Part IV)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

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 2) Paridurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by



Ananddeep Sawant  
 Authorized Signatory

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 E-mail: sadekarenviro@gmail.com • Website: www.sadekarenviro.com • Ctn. : 04520541199/PTC-110/18

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.2891-DTJ-2020)	LES-CCL/FF/MF/SC/1306	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by MoEF & CD with reg no EC 11/2023 \* Certified by ISO 9001:2015 & ISO 17025:2018

WPC 112703  
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## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Satarda (Maharashtra State) (M-A1)				
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	68	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	236	Longitude	E 73°46'00.2"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0007	18.34	5.08	<3.00	<6.00	0.02	23.40
2	05/09/2022	SEE/AR/09/2022/0046	12.86	5.24	<3.00	<6.00	0.03	18.50
3	08/09/2022	SEE/AR/09/2022/0065	14.92	5.49	<3.00	<6.00	0.02	20.89
4	12/09/2022	SEE/AR/09/2022/0249	16.07	6.74	<3.00	<6.00	0.03	23.01
5	15/09/2022	SEE/AR/09/2022/0337	13.38	7.61	<3.00	<6.00	0.02	22.03
6	19/09/2022	SEE/AR/09/2022/0393	14.35	8.11	<3.00	<6.00	0.02	22.96
7	22/09/2022	SEE/AR/09/2022/0470	20.40	5.24	<3.00	<6.00	0.03	27.60
8	26/09/2022	SEE/AR/09/2022/0528	22.35	5.99	<3.00	<6.00	0.03	28.36
9	29/09/2022	SEE/AR/09/2022/0608	16.49	8.06	<3.00	<6.00	0.02	26.91
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>ug/ m<sup>3</sup></b>	<b>ug/m<sup>3</sup></b>	<b>ug/m<sup>3</sup></b>	<b>ug/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>ug/m<sup>3</sup></b>
<b>Method</b>			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 05)	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) Akash Pattade  
 2) Pandurang Gawas  
 Analyzed by

Varsha Pola  
 Reviewed by



Ananddeep Sawant  
 Authorized Signatory



**Calibration details of Equipment used for Sampling & Analysis**

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	LES-CCL/FF/RF/SC/3770	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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CONTRACT NO.  
 SPM/100

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State) (M-A2)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	65	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	216	Longitude	E 73°49'20.5"
Instruments Used	FPS (APM-550), RDS (APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0008	21.08	7.14	<3.00	<6.00	0.03	29.15
2	05/09/2022	SEE/AR/09/2022/0047	18.42	7.03	<3.00	<6.00	0.02	25.82
3	08/09/2022	SEE/AR/09/2022/0066	23.34	5.82	<3.00	<6.00	0.03	29.65
4	12/09/2022	SEE/AR/09/2022/0250	15.81	7.90	<3.00	<6.00	0.02	24.36
5	15/09/2022	SEE/AR/09/2022/0338	14.65	6.74	<3.00	<6.00	0.03	21.86
6	19/09/2022	SEE/AR/09/2022/0394	35.02	9.52	<3.00	6.28	0.02	45.25
7	22/09/2022	SEE/AR/09/2022/0479	18.05	5.36	<3.00	<6.00	0.03	26.14
8	26/09/2022	SEE/AR/09/2022/0529	14.12	5.61	<3.00	<6.00	0.02	20.33
9	29/09/2022	SEE/AR/09/2022/0609	16.08	5.20	<3.00	<6.00	0.03	21.07
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
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)

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

1) Akesh Paltade  
 2) Pandurang Galwas  
 Analyzed by

Versha Pole  
 Reviewed by



Anandjeep 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 (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



# Sadekar Enviro Engineers Pvt. Ltd.

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STATE LICENSE

MAHARASHTRA

Licensed by MAF & CC Maharashtra on 01.11.2022 \* Certified by ISO 9001:2015 & ISO 14001 : 2015

## AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPI./QSP-10
Sample Collected By	SEEPL Representative		
Month of Sampling	September 2022		

### AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	67	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	254	Longitude	E 73°50'48.0"
Instruments Used	FPS(APM-550), RDS(APM-460) & GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	SPM
1	01/09/2022	SEE/AR/09/2022/0009	14.23	5.04	<3.00	<6.00	0.02	19.69
2	05/09/2022	SEE/AR/09/2022/0048	26.24	5.82	<3.00	<6.00	0.03	32.07
3	08/09/2022	SEE/AR/09/2022/0067	22.49	6.45	<3.00	<6.00	0.02	29.36
4	12/09/2022	SEE/AR/09/2022/0251	16.69	6.20	<3.00	<6.00	0.03	22.97
5	15/09/2022	SEE/AR/09/2022/0339	20.60	5.28	<3.00	<6.00	0.03	26.13
6	19/09/2022	SEE/AR/09/2022/0395	23.83	6.53	<3.00	<6.00	0.02	30.49
7	22/09/2022	SEE/AR/09/2022/0480	33.95	9.65	<3.00	<6.00	0.05	44.27
8	26/09/2022	SEE/AR/09/2022/0510	15.16	7.82	<3.00	<6.00	0.03	23.65
9	29/09/2022	SEE/AR/09/2022/0611	18.39	10.44	<3.00	<6.00	0.02	29.17
<b>NAAQS Limits*</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>-</b>
<b>Units</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>
<b>Method</b>			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)

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1) Akash Pattade  
2) Pandurang Gawas  
Analyzed by

Varsha Pole  
Reviewed by



Ananddeep 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 450 (SR NO. 1902-DTJ-2014)	LES-CCL/FF/MF/SC/1719	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	LES-CCL/FF/RF/SC/3769	24/09/2021	23/09/2022

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



# Sadekar Enviro Engineers Pvt. Ltd.

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SHC/LR/ER  
SVC/LYE

Lab accredited by MoEF & CC (Vid) up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/09/2022/0252	Date of Issue	17/09/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	12/09/2022	Temperature(°C)	28.2	Humidity (%)	65
Analysis Started On	15/09/2022	Analysis Completed On		17/09/2022	

## AMBIENT AIR LOCATION

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.

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Susmita Kapdoskar  
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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



# Sadekar Enviro Engineers Pvt. Ltd.

B-206/207, Plot No. 01, Palm Estate, Pali-Margis, Varan, Aka, Old Bafra Road, Bafra, Porvalli, Ponda-Goa-403 101, Goa State, India ☎ : (0832) 2411322 / 2411323 • E-mail : [statelagoa@rediffmail.com](mailto:statelagoa@rediffmail.com)

SRMCL/RTI/04  
SRMCL/04

Lab accredited by NABL & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

## AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/09/2022/0253	Date of Issue	17/09/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	12/09/2022	Temperature(°C)	28.2	Humidity (%)	85
Analysis Started On	15/09/2022	Analysis Completed On		17/09/2022	

## AMBIENT AIR LOCATION

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.  
 : This certificate may not be reproduced in part, without the permission of this laboratory.  
 : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

Susmita Kapdoskar  
Analyzed by

Varsha Pole  
Reviewed by



Anandheep Sawant  
Authorized Signatory

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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



# Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 01, Panch Estates, Park Nagar, Verna, Ato, Old Belm Road, Bandra, Porvuram, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : shahajgoa@rediffmail.com

SAVE WATER  
SPRINKLE

Lab accredited by MAF & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001:2018

AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/09/2022/0254	Date of Issue	17/09/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	12/09/2022	Temperature(°C)	28.2	Humidity (%)	65
Analysis Started On	15/09/2022	Analysis Completed On		17/09/2022	

### AMBIENT AIR LOCATION

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

  
 Susmita Kapdoskar  
 Analyzed by

  
 Varsha Pole  
 Reviewed by



  
 Anandjeep Sawant  
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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



# Sadekar Enviro Engineers Pvt. Ltd.

R-000001, Plot No. 31, Phase Estate, Vasa Marg, Verna Area, Old Goa, Goa. Phone: 0832-2413221, 2413222, 2413223  
 Goa State, India. ID: (0832) 2413221, 2413222 • E-mail: sadekar@seeeindia.com  
 Lab accredited by MUDR & CC-Metro under ISO 17025 • Certified by ISO 9001:2015 & ISO 45001: 2018

Lab No: 12/181  
 5/20/22

NOISE LEVEL MONITORING REPORT			
Report No.	SEE/AR/09/2022/0396-0397, 0503-0504, 0512, 0661, 0611, 0558, 0576, 0662, 0577, 0557	Date of Issue	04/10/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEP. Representative		
Sampling Plan	SEEP/LD/FMT- 54	Sampling Procedure No.	SEEP/QSP-10

### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	19/09/2022	SEE/AR/09/2022/0396	G-N1	I	Mopa Boundary	30.0	72.3	56.6	30.0	71.8	51.6
2.	19/09/2022	SEE/AR/09/2022/0397	G-N2	I	Shemochadvan Boundary	30.1	71.7	57.5	30.0	73.4	54.2
3.	25/09/2022	SEE/AR/09/2022/0503	G-N3	C	Nagzer	30.2	69.9	52.3	30.4	68.9	49.4
4.	25/09/2022	SEE/AR/09/2022/0504	G-N4	R	Purva Casarvannem	30.1	60.8	47.4	30.0	56.9	38.9
5.	29/09/2022	SEE/AR/09/2022/0612	G-N5	R	Chandel	30.2	70.4	43.2	30.2	63.2	39.6
6.	30/09/2022	SEE/AR/09/2022/0661	G-N6	R	Khajur-Anara Parsodam	30.0	73.4	46.4	30.6	60.4	39.5
7.	29/09/2022	SEE/AR/09/2022/0611	G-N7	R	Warkhand	30.3	68.5	43.2	31.0	63.3	39.7
8.	27/09/2022	SEE/AR/09/2022/0556	G-N8	C	Rajal Wade Torxem	30.3	72.4	51.3	30.3	66.6	45.7
9.	28/09/2022	SEE/AR/09/2022/0576	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvam	30.0	68.9	59.2	30.1	66.4	47.3
10.	30/09/2022	SEE/AR/09/2022/0662	M-N1	R	Satarda	30.1	67.4	43.1	30.0	55.3	36.5
11.	28/09/2022	SEE/AR/09/2022/0577	M-N2	R	Dingna	30.3	68.5	45.5	30.0	57.6	38.6
12.	27/09/2022	SEE/AR/09/2022/0557	M-N3	R	Netarde	30.0	60.6	46.0	30.2	69.5	38.1

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

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

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

- > 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) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing. A "decibel" is a unit in which noise is measured.
- > \*A, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- > Leq: It is 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 relate 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.

Sanjivan Gawas  
 Monitored by

Varsha Pole  
 Reviewed by



Pranveer Sawant  
 Authorized Signatory

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



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab. accredited by MAFPI & CC (Valid up to 03/11/2023) \* Certified by ISO 9001:2015 & ISO 45001:2018

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STACK EMISSION REPORT					
Report No.	SEE/AR/09/2022/0586	Date of Issue	04/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10		
Sample Collected By	SEEPL Representative	Environmental condition of lab			
Date of Sampling	29/09/2022	Temperature(°C)	27.9	Humidity (%)	67
Analysis Started On	29/09/2022	Analysis Completed On	04/10/2022		

### STACK DETAILS

Attached To	Diesel Generator (500 KVA) (Sr. No.3323-111-7)
Shape	Round
Diameter	0.20 Mtr
Height From Ground Level	8.0 Mtr
Material of Construction	M.S.
Temperature	332 °C
Velocity of Flue Gases	9.84 m/sec
Volumetric Flue Gas Flow Rate	1112.31 m³/hour
Volumetric Flue Gas Flow Rate	547.33 Nm³/hour
Type of Fuel	H.S.D.
Fuel Consumption	48.00 liter
Load	380.00 KVA (76%)

### Chemical Testing - Atmospheric Pollution

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.10	2.1	Kg/hour	IS 11255(Part II)
02.	NO <sub>x</sub>	0.15	9.2	g/kw-hr	IS 11255(Part VII)
03.	Carbon Monoxide	0.09	3.5	g/kw-hr	By Flue Gas Analyzer
04.	Hydrocarbons	0.06	1.3	g/kw-hr	By Flue Gas Analyzer
05.	Particulate Matter	0.15	0.3	g/kw-hr	IS 11255 (part I)

\*\*Consent No.12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.  
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 : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report

*[Signature]*  
 Pandurang Gawas  
 Analyzed by

*[Signature]*  
 Varsha Pole  
 Reviewed by



*[Signature]*  
 Anandeeep Sawant  
 Authorized Signatory

HEAD OFF & LAB : Plot No. A-35, Road No. 18, (Near Nigao Road, M.I.D.C. Wagle Industrial Area, Thane - 400004, Maharashtra State, India)  
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22125511 / 22125512 / 22125513 / 22125514 / 22125515 / 22125516 / 22125517 / 22125518 / 22125519 / 22125520 / 22125521 / 22125522 / 22125523 / 22125524 / 22125525 / 22125526 / 22125527 / 22125528 / 22125529 / 22125530 / 22125531 / 22125532 / 22125533 / 22125534 / 22125535 / 22125536 / 22125537 / 22125538 / 22125539 / 22125540 / 22125541 / 22125542 / 22125543 / 22125544 / 22125545 / 22125546 / 22125547 / 22125548 / 22125549 / 22125550 / 22125551 / 22125552 / 22125553 / 22125554 / 22125555 / 22125556 / 22125557 / 22125558 / 22125559 / 22125560 / 22125561 / 22125562 / 22125563 / 22125564 / 22125565 / 22125566 / 22125567 / 22125568 / 22125569 / 22125570 / 22125571 / 22125572 / 22125573 / 22125574 / 22125575 / 22125576 / 22125577 / 22125578 / 22125579 / 22125580 / 22125581 / 22125582 / 22125583 / 22125584 / 22125585 / 22125586 / 22125587 / 22125588 / 22125589 / 22125590 / 22125591 / 22125592 / 22125593 / 22125594 / 22125595 / 22125596 / 22125597 / 22125598 / 22125599 / 22125600 / 22125601 / 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22125784 / 22125785 / 22125786 / 22125787 / 22125788 / 22125789 / 22125790 / 22125791 / 22125792 / 22125793 / 22125794 / 22125795 / 22125796 / 22125797 / 22125798 / 22125799 / 22125800 / 22125801 / 22125802 / 22125803 / 22125804 / 22125805 / 22125806 / 22125807 / 22125808 / 22125809 / 22125810 / 22125811 / 22125812 / 22125813 / 22125814 / 22125815 / 22125816 / 22125817 / 22125818 / 22125819 / 22125820 / 22125821 / 22125822 / 22125823 / 22125824 / 22125825 / 22125826 / 22125827 / 22125828 / 22125829 / 22125830 / 22125831 / 22125832 / 22125833 / 22125834 / 22125835 / 22125836 / 22125837 / 22125838 / 22125839 / 22125840 / 22125841 / 22125842 / 22125843 / 22125844 / 22125845 / 22125846 / 22125847 / 22125848 / 22125849 / 22125850 / 22125851 / 22125852 / 22125853 / 22125854 / 22125855 / 22125856 / 22125857 / 22125858 / 22125859 / 22125860 / 22125861 / 22125862 / 22125863 / 22125864 / 22125865 / 22125866 / 22125867 / 22125868 / 22125869 / 22125870 / 22125871 / 22125872 / 22125873 / 22125874 / 22125875 / 22125876 / 22125877 / 22125878 / 22125879 / 22125880 / 22125881 / 22125882 / 22125883 / 22125884 / 22125885 / 22125886 / 22125887 / 22125888 / 22125889 / 22125890 / 22125891 / 22125892 / 22125893 / 22125894 / 22125895 / 22125896 / 22125897 / 22125898 / 22125899 / 22125900 / 22125901 / 22125902 / 22125903 / 22125904 / 22125905 / 22125906 / 22125907 / 22125908 / 22125909 / 22125910 / 22125911 / 22125912 / 22125913 / 22125914 / 22125915 / 22125916 / 22125917 / 22125918 / 22125919 / 22125920 / 22125921 / 22125922 / 22125923 / 22125924 / 22125925 / 22125926 / 22125927 / 22125928 / 22125929 / 22125930 / 22125931 / 22125932 / 22125933 / 22125934 / 22125935 / 22125936 / 22125937 / 22125938 / 22125939 / 22125940 / 22125941 / 22125942 / 22125943 / 22125944 / 22125945 / 22125946 / 22125947 / 22125948 / 22125949 / 22125950 / 22125951 / 22125952 / 22125953 / 22125954 / 22125955 / 22125956 / 22125957 / 22125958 / 22125959 / 22125960 / 22125961 / 22125962 / 22125963 / 22125964 / 22125965 / 22125966 / 22125967 / 22125968 / 22125969 / 22125970 / 22125971 / 22125972 / 22125973 / 22125974 / 22125975 / 22125976 / 22125977 / 22125978 / 22125979 / 22125980 / 22125981 / 22125982 / 22125983 / 22125984 / 22125985 / 22125986 / 22125987 / 22125988 / 22125989 / 22125990 / 22125991 / 22125992 / 22125993 / 22125994 / 22125995 / 22125996 / 22125997 / 22125998 / 22125999 / 22126000 / 22126001 / 22126002 / 22126003 / 22126004 / 22126005 / 22126006 / 22126007 / 22126008 / 22126009 / 22126010 / 22126011 / 22126012 / 22126013 / 22126014 / 22126015 / 22126016 / 22126017 / 22126018 / 22126019 / 22126020 / 22126021 / 22126022 / 22126023 / 22126024 / 22126025 / 22126026 / 22126027 / 22126028 / 22126029 / 22126030 / 22126031 / 22126032 / 22126033 / 22126034 / 22126035 / 22126036 / 22126037 / 22126038 / 22126039 / 22126040 / 22126041 / 22126042 / 22126043 / 22126044 / 22126045 / 22126046 / 22126047 / 22126048 / 22126049 / 22126050 / 22126051 / 22126052 / 22126053 / 22126054 / 22126055 / 22126056 / 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22126421 / 22126422 / 22126423 / 22126424 / 22126425 / 22126426 / 22126427 / 22126428 / 22126429 / 22126430 / 22126431 / 22126432 / 22126433 / 22126434 / 22126435 / 22126436 / 22126437 / 22126438 / 2212

Calibration details of Equipment used for Sampling & Analysis

Slack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	18/12/2021	17/12/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

FLUE GAS ANALYSER

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Flue-Gas Analyser (Sr. No.20190427206A)	ATS/2393	15/02/2022	14/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab. Certified by NABL (F & C) Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001:2018

ISO 14001  
 2015 CERT

STACK EMISSION REPORT					
Report No.	SEE/AR/09/2022/0585	Date of Issue	04/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa				
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10		
Sample Collected By	SEEPL Representative	Environmental condition of lab			
Date of Sampling	29/09/2022	Temperature(°C)	27.9	Humidity (%)	67
Analysis Started On	29/09/2022	Analysis Completed On	04/10/2022		

### STACK DETAILS

Attached To	Diesel Generator (KOH-LER-500 KVA) (Near AGC Plant)(Sr. No. 33N3INFR0001)
Shape	Round
Diameter	0.20 Mtr
Height From Ground Level	6.70 Mtr
Material of Construction	M.S.
Temperature	298 °C
Velocity of Flue Gases	5.64 m/sec
Volumetric Flue Gas Flow Rate	637.55 m <sup>3</sup> /hour
Volumetric Flue Gas Flow Rate	332.52 Nm <sup>3</sup> /hour
Type of Fuel	H.S.D.
Fuel Consumption	20.00 lit/hr
Load	200.00 KVA (40%)

### Chemical Testing - Atmospheric Pollution

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.10	-	Kg/hour	IS 11255(Part I)
02.	NO <sub>x</sub>	0.12	9.2	g/kw-hr	IS 11255(Part VII)
03.	Carbon Monoxide	0.10	3.5	g/kw-hr	By Flue Gas Analyzer
04.	Hydrocarbons	0.05	1.3	g/kw-hr	By Flue Gas Analyzer
05.	Particulate Matter	0.13	0.3	g/kw-hr	IS 11255 (part I)

\*\*As per Sr. No.94,95 and 96 of Schedule I of The Environmental (Protection) rule 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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Pandurang Gawas  
 Analyzed by

Varsha Pole  
 Reviewed by

Ananddeep Sawant  
 Authorized Signatory

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Certified By Ministry of Environment, Forests & Climate Change, Govt Of India. S. O. 857 (2)

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Calibration details of Equipment used for Sampling & Analysis

Slack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	18/12/2021	17/12/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

FLUE GAS ANALYSER

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Flue-Gas Analyser (Sr. No.20190427206A)	ATS/2393	15/02/2022	14/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SPM 112018  
SME 1116

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

## STACK EMISSION REPORT

Report No.	SEE/AR/09/2022/0583	Date of Issue	04/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sampling Plan	SEEPL/LD/FMT-54	SEEPL/LD/FMT-54	SEEPL/LD/FMT-54		
Sample Collected By	SEEPL Representative	Environmental condition of lab			
Date of Sampling	29/09/2022	Temperature(°C)	27.9	Humidity (%)	67
Analysis Started On	29/09/2022	Analysis Completed On	04/10/2022		

### STACK DETAILS

Attached To	Hot Mix Plant – Linnhoff (160 TPH)
Shape	Rectangular
Dimension	1.0 x 0.90 Mtr
Height from Ground Level	15.00 Mtr
Temperature	79 °C
Velocity of Flue Gases	11.86 m/sec
Volumetric Flue Gas Flow Rate	38426.40 m <sup>3</sup> /hour
Volumetric Flue Gas Flow Rate	32517.91 Nm <sup>3</sup> /hour

### Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.58	1.62	Kg/hour	IS 11255(Part II)
02.	Particulate Matter	93.50	150.00	mg/Nm <sup>3</sup>	IS 11255 (part I)

**\*\*Consent No.12/2020-PCB/510173/O0004024**

**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.

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Varsha Pole  
Reviewed by



Anand Deep Sawant  
Authorized Signatory

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Governed By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 157 (E)

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Calibration details of Equipment used for Sampling & Analysis

Stack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	18/12/2021	17/12/2022

FLUE GAS ANALYSER

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Flue-Gas Analyser (Sr. No.20190427206A)	ATS/2393	15/02/2022	14/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SAVE WATER  
SAVE LIFE

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STACK EMISSION REPORT					
Report No.	SEE/AR/09/2022/0584	Date of Issue	04/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Sampling Plan	SEEPL/LD/FMT- 54	SEEPL/LD/FMT- 54	SEEPL/LD/FMT- 54		
Sample Collected By	SEEPL Representative	Environmental condition of lab			
Date of Sampling	29/09/2022	Temperature(°C)	27.9	Humidity (%)	57
Analysis Started On	29/09/2022	Analysis Completed On	04/10/2022		

### STACK DETAILS

Attached To	Hot Mix Plant - Ammann (120 TPH)
Shape	Round
Dimension	0.78 Mtr
Height from Ground Level	15.00 Mtr
Temperature	71 °C
Velocity of Flue Gases	15.24 m/sec
Volumetric Flue Gas Flow Rate	26214.02 m <sup>3</sup> /hour
Volumetric Flue Gas Flow Rate	22699.21 Nm <sup>3</sup> /hour

### Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.60	1.62	Kg/hour	IS 11255(Part II)
02.	Particulate Matter	87.41	150.00	mg/Nm <sup>3</sup>	IS 11255 (part I)

**\*\*Consent No.12/2020-PCB/510173/O0004024**

**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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Pandurang Gawas  
Analyzed by

*Varsha Pole*  
Varsha Pole  
Reviewed by

*Anandeeep*  
Anandeeep Sawant  
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Calibration details of Equipment used for Sampling & Analysis

Slack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	18/12/2021	17/12/2022

FLUE GAS ANALYSER

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Flue-Gas Analyser (Sr. No.20190427206A)	ATS/2393	15/02/2022	14/02/2023



# Sadekar Enviro Engineers Pvt. Ltd.

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SERVE CLIENT  
SERVE LIFE

Lab accredited by M&EF & CC Valid up to 31.11.2023 & Certified by ISO 9001:2015 & ISO 45001 : 2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/196	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/D/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall-2 (CV-18), Amberem			
Sample details	Storm Water Outfall 2	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.80	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-D & G
6.	Total Dissolved Solids (TDS)	49.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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*Shweta*  
Shweta Sawant  
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*V. Chopdekar*  
Varsha Polis  
Reviewed By



*Anandjeep*  
Anandjeep Sawant  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	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/003	T2021/11/006	11/11/2021	11/11/2022



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SWE/116

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

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/205	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 1 (Maingate)			
Sample details	Storm Water Outfall 1	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.12	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	70.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Mugdha Gawade  
Analyzed by

Versha Pole  
Reviewed By



Ananddeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/082	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/009	T2021/11/006	11/11/2021	11/11/2022



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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/209	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	85
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall 3 ( Varconda)			
Sample details	Storm Water Outfall 3	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.23	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.60	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	30.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D

Note: Test results related only to the sample tested.

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*Asmita*

Asmita Sawant  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/210	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPLD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall -2 (CV-13) Amberem			
Sample details	Storm Water Outfall 2	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.75	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.40	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	79.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Total Dissolved Solids (TDS)	35.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Anandeeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/082	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/009	T2021/11/008	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/193	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airsides Outfall-5 (Chandel)			
Sample details	Storm Water Outfall-5	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.93	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H <sup>+</sup> -B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	67.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	43.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Agandeep Sawant  
Authorized Signatory

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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	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/009	T2021/11/005	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2022/206	Issue Date	16/09/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopra, Goa			
Order / Reference	As per dated 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 2 (Tulaskarwadi)			
Sample details	Storm Water Outfall 2	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.93	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H <sup>+</sup> -B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	65.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	44.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

**Note:** Test results related only to the sample tested.

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Shweta Sawant  
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*Varsha Pole*  
Varsha Pole  
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*Angadheep*  
Angadheep Sawant  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Callbration 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/009	T2021/11/006	11/11/2021	11/11/2022



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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/207	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall -4 ( Hot Mix Plant)			
Sample details	Storm Water Outfall 4	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.33	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+·B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	80.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	<1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G
6.	Total Dissolved Solids (TDS)	46.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Asmita Sawant  
Analyzed by

Varsha Pole  
Reviewed By



Apandeev Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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	10/04/2022	18/04/2023
03.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023
04.	Hot Air Oven	Q/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/208	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Landside Outfall 3 ( Behind MCDMCC Office)			
Sample details	Storm Water Outfall 3	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.45	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H <sup>+</sup> -B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.80	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	72.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	45.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

Note: Test results related only to the sample tested.

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Mugdha Gawade  
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Varsha Pole  
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Anandeev Sawant  
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### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	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/009	T2021/11/006	11/11/2021	11/11/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2022/211	Issue Date	16/09/2022	
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 12/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Airside Outfall-2 (CV-13A) Amberam			
Sample details	Storm Water Outfall 2	Date of collection	12/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	12/09/2022	
Analysis Started On	12/09/2022	Analysis Completed On	16/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.10	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	55.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Total Dissolved Solids (TDS)	40.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-C

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*Shweta*  
 Shweta Sawant  
 Analyzed by

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Apandeep*  
 Apandeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001

ISO 14001

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## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/151	Issue Date	14/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	WTP-Treated			
Sample details	Treated Water sample	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022	
Sample Container	Glass bottle	Sample Quantity	5000 ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	8.81	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.51	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	24.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	60.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	14.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S-F
11.	Total Hardness as CaCO <sub>3</sub>	34.00	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 Hamalkar  
 Analyzed by

Varsha Pole  
 Reviewed By



Angadheep Sawant  
 Authorized Signatory





Report No.	SEE/09/2022/151	Issue Date	14/09/2022
Order / Reference	As per dated 08/09/2022	Sample Received On	08/09/2022
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	1.25	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F <sup>-</sup>	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5540 - C

#### Metal 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 <sup>rd</sup> 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	3.40	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	10.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	4.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

Varsha Pole  
Reviewed By



Anandjeep Sawant  
Authorized Signatory



Report No.	SEE/09/2022/151	Issue Date	14/09/2022
Order / Reference	As per dated 08/09/2022.	Sample Received On	08/09/2022
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*  
Reviewed By



*Anandeeep Sawant*  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
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



# Sadekar Enviro Engineers Pvt. Ltd.

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CIN: U72200G2005PLC001190  
SME 193

Lab accredited by MEF & IEC Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001:2018

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/152	Issue Date	14/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C 28	Humidity % 64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP- 10	
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022	
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

### Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.90	-	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.76	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2150 B
6.	Total Alkalinity	56.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	164.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as Cl <sup>-</sup>	15.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 S <sup>2</sup> F
11.	Total Hardness as CaCO <sub>3</sub>	86.00	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  
Analyzed by

Varsha Pole  
Reviewed By



Anandeeep Sawant  
Authorized Signatory



Report No.	SEE/09/2022/152	Issue Date	14/09/2022
Order / Reference	As per dated 08/09/2022	Sample Received On	08/09/2022
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

#### Chemical Testing

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 <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 5510 - C

#### Metal 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	15.23	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.19	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	11.65	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	14.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
32.	Potassium as K	8.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab  
2. Shreya Harmalkar  
Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Anandeep Sawant*  
Anandeep Sawant  
Authorized Signatory





Report No.	SEE/09/2022/152	Issue Date	14/09/2022
Order / Reference	As per dated 08/09/2022	Sample Received On	08/09/2022
Analysis Started On	08/09/2022	Analysis Completed On	14/09/2022
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport 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 <sup>rd</sup> Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	API-A( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

1. Anisha Parab

2. Shreya Harmalkar

Analyzed by

*Anisha Parab*  
*Shreya Harmalkar*

*Varsha Pote*

Reviewed By



*Arundeep Sawant*

Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
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



# Sadekar Enviro Engineers Pvt. Ltd.

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ISO 9001:2015  
EN 15164

Lab accredited by NABL & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001 : 2015

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/141	Issue Date	13/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	13/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.10	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+ -B
2.	Chemical Oxygen Demand (COD)	760.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	210.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	258.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	13.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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

*Mugdha*  
Mugdha Gawade  
Analyzed By

*Varsha Pole*  
Varsha Pole  
Reviewed By



*Ananddeep*  
Ananddeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by M&EF & CO Valid up to 05.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

MA/14/17/01  
 27/1/22

## ANALYSIS REPORT FOR WATER SAMPLE

Report No	SEE/09/2022/142	Issue Date	13/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	13/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.30	-	5.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	160.00	mg/lit	250.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	22.00	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	68.00	mg/lit	100.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G

**Note:** Test results related only to the sample tested.

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*Mugdha*  
 Mugdha Gewade  
 Analyzed By

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Ananddeep*  
 Ananddeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

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Lab. accredited by NABL & CIL valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 14001:2015

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0000-000

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2022/143	Issue Date	13/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	13/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.11	-	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	496.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	131.25	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	169.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	6.40	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5620-O & G

**Note:** Test results related only to the sample tested.

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*Shweta Sawant*  
Shweta Sawant  
Analyzed By

*Vansha Pole*  
Vansha Pole  
Reviewed By



*Anandjeep Sawant*  
Anandjeep Sawant  
Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022



# Sadekar Enviro Engineers Pvt. Ltd.

B-309/507, Plot No. 51, Patal Estate, Reis Margis, Vorem, Udx. Old Balem Road, Bardez, Povalim, Panaji Goa-403101.  
 Goa State, India. ☎ : (0832) 2411022 / 2411525 • E-mail : satekar@goa@rediffmail.com  
 Lab accredited by MoEF & CC Valid up to 03.11.2023 • Certified by ISO 9001:2015 & ISO 45001 : 2018

ANALYSIS REPORT  
 SEE/PL

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2022/144	Issue Date	13/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	84
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	13/09/2022	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.93	-	5.5 – 9.0	APHA( 23 <sup>rd</sup> Edition ) 4500 H+B
2.	Chemical Oxygen Demand (COD)	40.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> 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)	19.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	3.00	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-O & G
6.	Ammonia	3.36	mg/lit	5.00	APHA( 23 <sup>rd</sup> Edition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	8.75	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 4500 N-B

### Microbiological Parameters

8.	Fecal coliforms at 44.5°C for 24 hrs.	46	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E
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Note: Test results related only to the sample tested.

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1. Shweta Sawant  
 2. Anisha Parab  
 Analyzed By

Varsha Pole  
 Reviewed By



Afandeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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/009	T2021/11/006	11/11/2021	11/11/2022
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



# Sadekar Enviro Engineers Pvt. Ltd.

B-300307, Plot No. 01, Palm Estate, Near Magoa, Varsha, A.M. Old Babin Road, Barchi, Palyonm, Panaji Goa-403 101.  
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : satekarenviro@rediffmail.com  
Lab accredited by MoEF & CPCMA (up to 03.11.2022) & Certified by ISO 9001:2015 & ISO 45001:2018

ISO 11875  
ISO 17025

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/145	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling point	Megawide Labor Colony			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Amitdeep Sawant*  
Amitdeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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



# Sadekar Enviro Engineers Pvt. Ltd.

ISO 9001, Plot No. 01, Patel Estate, Ram Nagar, Vivero, A/S, Old Eastern Road, Bantva, Porvair, Palghar (Dist) - 401 101.  
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 Lab accredited by MoEF & CG Water up to 08.11.2023 \* Certified by ISO 9001:2015 & ISO 45001:2018

QUALITY SYSTEM  
 ISO 9001

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/146	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C	Humidity %
			28	64
Sampling point	KMV			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/08/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-B.
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.  
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 : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Anandeeep Sawant*  
Anandeeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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



# Sadekar Enviro Engineers Pvt. Ltd.

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

QMS LP/193  
 S/W/UPC

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/147	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp. °C 28	Humidity % 54
Sampling point	L.S.C			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-E
2.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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Anisha Pareb  
 Analyzed by

Varsha Pole  
 Reviewed By



Ananddeep Sawant  
 Authorized Signatory



### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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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17/01/2019

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

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/148	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			28	64
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Apurdeep Sawant*  
Apurdeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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



# Sadekar Enviro Engineers Pvt. Ltd.

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 Lab accredited by NABL & ISO Valid up to 03-11-2023 & Certified by ISO 9001:2015 & ISO 45001 : 2018

2nd Edition  
 17th LPA

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/149	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp °C 28	Humidity % 64
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEEPL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

**Note:** Test results related only to the sample tested.

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

*Anisha Parab*  
 Anisha Parab  
 Analyzed by

*Varsha Pole*  
 Varsha Pole  
 Reviewed By



*Arundeep Sawant*  
 Arundeep Sawant  
 Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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



# Sadekar Enviro Engineers Pvt. Ltd.

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Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : sadekar@seelab.com

Lab accredited by NABL & CQC (Valid upto 03.11.2023) & Certified by ISO 9001:2015 & ISO 45001 : 2018

SPR-127793

5836104

## ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2022/150	Issue Date	12/09/2022	
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 08/09/2022	Environmental Condition of Lab	Temp. °C	Humidity %
			28	64
Sampling point	ATC Tower			
Sample details	Drinking Water	Date of collection	08/09/2022	
Sample Collected by	SEEL Representative	Sample Received On	08/09/2022	
Analysis Started On	08/09/2022	Analysis Completed On	12/09/2022	
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 <sup>rd</sup> Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 8221-G

Note: Test results related only to the sample tested.

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

*Anisha Parab*

Anisha Parab  
Analyzed by

*Varsha Pole*

Varsha Pole  
Reviewed By



*Ariandeep Sawant*  
Ariandeep Sawant  
Authorized Signatory

### Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				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

**ANNEXURE – 3**

**ENVIRONMENTAL EXPENDITURE DURING PERIOD OF  
APRIL 2022 TO SEPTEMBER 2022**

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

<b>S. N.</b>	<b>Particulars</b>	<b>Total EXPENSES during Apr 2022 to Sept 2022 (in INR Crore)</b>
1.	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States)	0.189
2.	Dust suppression through tankers & chemical dust suppressants	0.263
3.	Water sprinkling tankers and fog / mist canons for dust suppression	0.347
4.	Periodical Fund deposit to GSBB towards compensatory tree afforestation	0.200
5.	Maintenance of translocated trees within the site	0.169
6.	Top soil preservation measures	2.271
7.	O&M of labour colony STP # 1	0.061
8.	O&M of labour colony STP # 2	0.02
9.	O&M of labour colony STP # 3	0.085
10.	Occupational health surveillance of workmen	0.029
11.	Airport & DG Sets' CTO application fees	2.701
12.	Environment Management Cell (EMC) set up	0.110
13.	Monsoon protection measures	10.261
14.	Waste Management (M/s Alterz Energy)	0.075
15.	Vacuum Tanker (Portable toilets at site)	0.166
16.	Environmental Compliance Monitoring by NEERI	0.170
17.	Aviation Noise Monitoring Terminal units (NMT)	0.512
18.	Installation of 625 KLD Sewage Treatment Plant	4.494
19.	Rainwater Harvesting	0.148
20.	Installation of 550 KLD Water Treatment Plant	1.247
21.	LED lighting in all buildings & roads	23.425
	<b>TOTAL</b>	<b>46.943</b>





**ANNEXURE – 4**

**LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT  
OBTAINED DURING APRIL 2022 TO SEPTEMBER 2022**

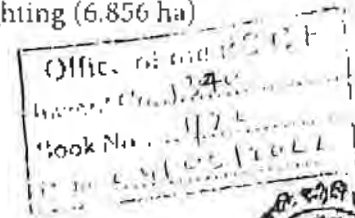
S.N.	Statutory Permits/Approval	Date		Statutory Authority	Permit enclosed as
		Issued	Validity		
1.	Stage-1 Forest Clearance for CAT-1 lighting (6.856 ha)	03/05/2022	03/05/2027	Forest Dept., GoG	Appendix-1
2.	Approval from WRD for Airside drains	26/05/2022	-	Water Resources Department, GoG	Appendix-2
3.	Consent to Establish (CTE) for Fuel Farm (BPCL) and Amendment.	07/06/2022	07/06/2025	Goa State Pollution Control Board (GSPCB)	Appendix-3
4.	Consent to Establish for Cargo	07/06/2022	07/06/2025	GSPCB	Appendix-4
5.	Consent to Establish for Terminal Hotel Building	08/06/2022	08/06/2025	GSPCB	Appendix-5
6.	Consent to Establish for Inflight Kitchen (TajSats)	10/06/2022	10/06/2025	GSPCB	Appendix-6
7.	Stage-2 Forest Clearance for CAT-1 lighting (6.856 ha)	15/06/2022	-	Forest Dept., GoG	Appendix-7
8.	Consent to Operate (CTO) for DG Sets 3 x 2000 KVA	04/08/2022	28/04/2027	GSPCB	Appendix-8
9.	One-time approval for Landing / Touch and Go by Indigo Aircraft for conducting Instrumental Flight Trails	12/08/2022	-	Directorate of General of Civil Aviation (DGCA)	Appendix-9
10.	Installation permission for 3 x 2000 KVA DG Set	12/08/2022	-	Chief Electrical Engineer, GoG	Appendix-10



15/2022

Appendix -1

Stage-I Forest Clearance for CAT I lighting (6.856 ha)



भारत सरकार  
GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE  
CHANGE

समन्वित क्षेत्रीय कार्यालय  
INTEGRATED REGIONAL OFFICE

Kendriya Sadan, IVth Floor, E& F Wings, 17<sup>th</sup> Main Road,  
IInd Block, Koramangala, Bangalore - 560 034.  
Tel.No.080-25635905, E.Mail: rosz.bng-mef@nic.in



**BY SPEED POST**  
F.No.4- GOCB1354/2022-BAN 165  
Dated the 3<sup>rd</sup> May, 2022

To

The Principal Secretary (Forests),  
Government of Goa,  
Secretariat Annexe,  
Secretariat, Porvorim,  
Goa -403 521.

**Subject: Diversion of 6.856 ha of forest land in Sy.No.19 of Chandel Village of Pernem Taluka, North Goa Forest Division & District for CAT-I Approach Surface Area for International Airport at Mopa in Goa in favour of Director, Directorate of Civil Aviation, Government of Goa.**

Sir,

I am directed to refer to the State Government's letter No.6-856-2022-23-FD/Vol.III/368 dated 28/04/2022 and email dated 28<sup>th</sup> April, 2022 received from Deputy Conservator of Forest (M&E) Goa Forest Department seeking prior approval of the Central Government under Section '2' of the Forest (Conservation) Act, 1980 for the above project.

After careful examination of the proposal of the State Government, in-principle approval /Stage-I clearance of the Central Government is hereby granted for diversion of 6.856 ha of forest land in Sy.No. 19 of Chandel Village, Pernem Taluk in North Goa Division and District for CAT-I approach surface area for International Airport at Mopa in favour of Director, Directorate of Civil Aviation, Government of Goa subject to the following conditions:-

**A: Conditions which need to be complied prior to handing over of forest land by the State Forest Department.**

1. The User Agency shall transfer online, the Net Present Value (NPV) of the forest land being diverted under this proposal, as per the guideline issued by Ministry vide letter No.5-3/2011-FC (Vol-I) dated 06/01/2022. The requisite funds shall be transferred through online portal into CAMPA account of the State concerned.
2. The identified revenue land of 7.315 ha. at Varconda Village at Survey Nos.82, 83/12,13,14,15,16,84&96 within the project area of Mopa Airport for raising

71  
01/05/22

4/0

DA

- Compensatory Afforestation (CA) shall be transferred and mutated in the name of forest department and notified as RF/PF prior to Stage II approval.
3. The KML file of the area diverted and CA area shall be uploaded in the e-green watch portal with all requisite details and same shall be submitted along with the compliance report.
  4. The User Agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The CA scheme may include demarcation of non-forest land using chain link fencing with provisions for watering, planting of taller seedlings, SMC works and maintenance of 10 years.
  5. All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through e-portal (<https://parivesh.nic.in/>). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance.
  6. The State Government shall complete settlement of rights, in term of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006, if any, on the forest land to be diverted and submit the documentary evidence as prescribed by this Ministry in its letter No. 11-9/1998-FC dated 3<sup>rd</sup> August 2009 read with 05.07.2013 with necessary enclosures, in support thereof.
  7. The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).
  8. The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost as per the directions of concerned Divisional Forest Officer.
  9. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.

**B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval:**

1. Legal status of the diverted private forest land shall remain unchanged.
2. At the time of payment of the Net Present Value (NPV) at the then prevailing rate, the User Agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.
3. The User Agency shall restrict the felling of trees to minimum number in the diverted forest land and felling/pollarding of trees as and when required shall be done in consultation with the Forest Department.
4. Wherever trees are proposed to be felled, stumps should be retained and appropriate Soil and Moisture Conservation Works in the area shall be taken up at the cost of User Agency.
5. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.
6. No labour camp shall be established on the forest land.
7. The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required.

*SMA*

8. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.
9. No damage to the flora and fauna of the adjoining area shall be caused.
10. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
11. No construction activity shall be taken up in the area proposed for diversion.
12. The total forest area utilized for the project shall not exceed 6.856 ha.
13. Monitoring should be carried out on six monthly basis in order to ascertain adverse impact on avi-fauna & man-animal conflict.
14. Artificial nesting space shall be identified and developed (artificial nest boxes, etc) by the Forest Department for avifauna outside the funnel area at the cost of User Agency.
15. The user Agency shall provide space for the Forest Department as a centre for animal rescue to address man-animal conflict in the airport area, as the area is adjacent to good forest.
16. The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government and Integrated Regional Office, Bangalore by the end of March every year.
17. The user agency shall comply with all the provisions of all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT, Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

After receipt of compliance report on fulfilment of the conditions mentioned above, the proposal shall be considered for final approval under Section-2 of the Forest (Conservation) Act, 1980. Working permission, if any issued, shall be intimated to IRO, Bengaluru. Transfer of forest land shall not be affected till final approval is granted by the Central Government in this regard.

Further, it may also be noted that this in-principle approval shall be valid for a period of 5 years from the date of issue of this letter. In the event of non-compliance of the above conditions, this in-principle approval shall be revoked after 5 years.

Yours faithfully,

(M.K. Shambhu)  
Deputy Inspector General of Forests (Central)

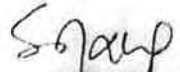
Copy to:-

1. The Principal Chief Conservator of Forests (HoFF), Forest Department, Government of Goa, Panaji (GOA), PIN- 403001.
2. The Deputy Conservator of Forests (Monitoring & Evaluation)/Nodal Officer (FCA), Office of the Principal Chief Conservator of Forests, Forest Department, Government of Goa, Panaji (GOA), PIN- 403001.
3. The Director, Directorate of Civil Aviation, Room No. 19 Secretariat, Porvorim, Goa-403521.
4. Guard file.



1/8275/2022

1/10/1/2022-DAN



(M.K. Shambhu)

Deputy Inspector General of Forests (Central)



Government of Goa  
Water Resources Department  
Sinchai Bhawan, Near Police Station, Alto-Porvorim, Bardez, Goa - 403 521  
Tel: (0832) 2412047, Fax: (0832) 2413046.

No. 9/3/EO/WRD/2022-23/ 59

Date: 26/05/2022

To,  
The Chief Development Officer,  
GMR Goa International Airport Ltd,  
Survey No.381/3, Mathura One,  
1st floor, NH 17, Porvorim-Goa

Sub:- Development of Green Field International Airport at Mopa, Goa-  
Submission of Airside storm water Drainage design-regarding...

Ref:- 1) Your Office letter ref No. GGIAL/WRD/2021-22/0937 dated 28/03/2022.  
2) Our office letter No. 9/3/EO/WRD/2020-21/527 dated 10/02/2021.

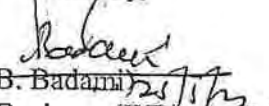
Sir,

With reference to above referred letter, this Department conveys NOC/approval to GMR limited to the revised layout for airside and landside storm water drainage as per details shown in the revised layout subject to the following conditions:-

- i) Applicant should keep the earthmoving machinery on standby, readily available for deployment at the instructions of WRD authority during pre and post monsoon for 3 years i.e upto December 2024.
- ii) The nallah and the downstream areas needs to be monitored on weekly basis by the Executive Engineer, Works Division I, WRD during the monsoon along with the officials of the Applicant.

All the other drainage layout approved earlier vide letter at ref 2 above remain unchanged.

Yours faithfully,

  
(P.B. Badami)  
Chief Engineer (WR)

Copy for information to:-

1. The Member Secretary, GSPCB, Saligao, Bardez - Goa.
2. The Superintending Engineer, Circle - I/II, WRD, Sinchai Bhawan, Porvorim/Karaswada Goa.
3. The Executive Engineer, Div I/VII WRD, Porvorim - Dhargal Goa.
4. The Assistant Engineer SD III, WDI, WRD, Pernem - Goa.

" CONSERVE WATER, CONSERVE LIFE "



**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, 2407702  
Telf/Fax No: 0832- 2407700



Email Ids.  
Chairman, GSPCB, [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in)  
Member Secretary, GSPCB, [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)  
Office: [mail.gspcb@gov.in](mailto:mail.gspcb@gov.in)

No.12/2022-PCB/1184508/R0009200

Date: 07/06/2022

**Consent to Establish under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981.**

[To be referred as Water Act, & Air Act respectively].

CONSENT TO ESTABLISH is hereby granted to:

**M/s. BHARAT PETROLEUM CORPORATION LIMITED**

(Represented by: Mr. Sampath Kumar Arsur)

(Red Category)

**Within the premises of GMR Goa International Airport Limited,  
Mopa, Pernem, Goa**

Located in the area declared under the provisions of the Water Act and Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Establish is valid upto **commissioning of the unit or 3 years whichever is earlier.**

2. This Consent to Establish is valid for the activity as mentioned below:

Sr. No	Description	Capacity
1.	Storage of Aviation Turbine Fuel (ATF)	9242 KL

3. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

(i) The daily quantity of domestic effluent from the unit shall not exceed **2 KLD.**

(ii) **Domestic Effluent treatment and Disposal:-**

The unit shall treat the domestic effluent in sewage treatment plant of GMR Airport, so as to achieve the quality of the treated effluent to the following standards:

pH	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20
BOD, 3 days, 27° C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10mg/l
NH4-N	Not to exceed	5mg/l
N-Total	Not to exceed	10mg/l
Fecal Coliform	Less than	100mg/l



- (iii) A good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas & water body.
- (iv) **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 with due permission from the Board.**
- (v) **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

- (vi) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No.	Date	Quantity of wet/dry waste	Name of agency collecting the wet/ dry waste	Authorized Signatory

#### 4. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:**

- (i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No	Name of Equipments/ Installation	No of Installation	Capacity	SO <sub>2</sub> Kg/Hr	(g/kw-hr)			
					NO <sub>x</sub>	HC	CO	PM
1.	D. G. Set	01	380 KVA	2.88	9.2	1.3	3.5	0.3
2.	D.G. Set	01	125 KVA	1.44	9.2	1.3	3.5	0.3

- (ii) The unit shall erect the chimney(s) of the following specification

Sr. No	Chimney attached to	Height
1.	D. G. Set(for 380 KVA)	5.5 meters
2.	D. G. Set(for 125 KVA)	4.0 meters

- (iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	D. G. Set(for 380 KVA)	40 liters/hr.
2.	D. G. Set(for 125 KVA)	20 liters/hr.

- (iv) **The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring – Material & methodology for isokinetic sampling.**

- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vi) The unit should carry out emission monitoring from the stacks twice a year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows:

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

**5. 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	0.06 MT/ annum	To recycler registered with SPCB and having valid authorization of SPCB.

- ii) *The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.*
- iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the 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 21 (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) Amended Rules 2018.
- xi) The occupier shall furnish monthly 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 near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- xiv) The unit shall submit annual returns online in prescribed format on or before 30<sup>th</sup> June of every year

**6. GENERAL CONDITIONS:**

- i. Trees shall be planted and maintained around the plant in an area at least 4 times the built area of the industry. Green belt development shall be started along with the construction activity.
- ii. The applicant shall not change or alter the quantity of discharge and the mode of disposal of the effluent without previous written permission of the Board.
- iii. The applicant shall provide facilities for collection of the samples to the Board staff.
- iv. The unit shall discharge the treated effluents preferably on land for irrigation / gardening / lawn within their own premises or re-use after suitable treatment.
- v. Stack heights for a (Diesel generator set(s) shall be as follows:  
 Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + \sqrt[3]{KVA}$  where H = total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.  
 The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:  
 The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.

- vi. The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- vii. The unit shall implement the following Rules and Regulations notified by the Ministry of Environment, Forests & Climate Change (MoEF & CC), Govt. of India.
- a) Hazardous and Other Wastes (Management and Transboundary Movement) Rules, Amendment 2018.
  - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989.
  - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro – organism /- Genetically Engineered Organisms or Cell, 1989.
- viii. There shall not be any perceptible odour outside the industrial premises.
- ix. The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Govt. of Goa and Directorate of Industries, Trade and Commerce, Govt. of Goa.
- x. All the Rules and Regulations notified by the Ministry of Environment, Forests and Climate Change (MoEF & CC), Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- xi. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (*Prevention and Control of Pollution*) Act 1974 and under section 21(4) of the Air (*Prevention and Control of Pollution*) Act 1981 to review any or all the conditions imposed hereby.
- xii. Any change in the details made after the submission of the application / after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- xiii. **This Consent to Establish (CTE) is granted without any prejudice to any other permission(s) required under any laws, bye – laws and regulations in force.**
- xiv. The unit should obtain permission from the Forest Department / Wild Life Board wherever applicable.
- xv. The unit may like to implement rain-water harvesting and ground water re-charge measures before submitting an application for Consent to Operate.
- xvi. The unit shall / generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under Bio-Medical Waste Management Amended Rules, 2018. Any activity as defined under BMW Rules has to obtain a separate Authorisation from Goa State Pollution Control Board.
- xvii. The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- xviii. The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (*Prevention and Control of Pollution*) Act, 1974 and under section 21 of the Air (*Prevention and Control of Pollution*) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant.

- xix. The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- xx. The unit shall submit returns for disposal of batteries under the Batteries (*Management & Handling*) Rules 2001, if applicable.
- xxi. The unit shall submit returns for disposal of e - waste under the E- Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxii. The unit shall submit returns for disposal of plastic waste under the Plastic Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxiii. The unit shall comply to the Guidelines and dust mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website – [www.goaspcb.gov.in](http://www.goaspcb.gov.in)

To,  
**M/s. Bharat Petroleum Corporation Limited**  
**C/o. Mr. Sampath Kumar Arsur,**  
**Mopa International Airport,**  
**Mopa, Pernem, Goa**

Copy to: - 1 Accounts Section 2 Concerned File 3 Guard File

Received Consent fee of: **The capital Investment of the unit is Rs. 4695.61 lakhs/-**

Cheque no.	Amount	Date
687694	Rs.100700	07/04/2022

(Dr. Shamila Monteiro)  
 Member Secretary  
 For Goa State Pollution Control Board

**CUSTOMER FEEDBACK**

Dear Citizen / Customer,  
 We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name : ..... Contact .....

Address: .....

Email: ..... Date .....

Name of the service availed:

Are you aware that service standards are included in the Citizen's Charter as available on Board's website :[www.goaspcb.gov.in](http://www.goaspcb.gov.in)?

Yes  No

If yes, is the Citizen Charter simple and easy to understand?

Yes  No

Description of service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....  
 .....  
 .....

Signature & date

To,  
 The Member Secretary,  
 Goa State Pollution Control Board,  
 Near Pilerne Industrial Estate,  
 Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

❖ Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

**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, 2407702  
Tel/Fax No: 0832- 2407700



Email Ids:  
Chairman, GSPCB, [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in)  
Member Secretary, GSPCB, [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)  
Office: [mail.gspcb@gov.in](mailto:mail.gspcb@gov.in)

No.12/2022-PCB/1223009/G0009473

Date:07/06/2022

**Consent to Establish under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6(i) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 as amended thereafter.**

**[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]**

**CONSENT TO ESTABLISH** is hereby granted to:

**M/s. GMR Airports Limited - Air Cargo Terminal**  
(Represented by: *Shri. Saurabh Kumar*)  
(Red Category)

**Green Field International Airport,**  
**Mopa, North Goa**

Located in the area declared under the provisions of the Water Act and Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- The Consent to Establish is valid upto **commissioning of the unit or 3 years whichever is earlier.**
- This Consent to Establish is valid for the activity as mentioned below:

Sr. No	Description	Quantity
1.	Air Cargo	30000 MT/annum

- CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

(i) The daily quantity of domestic effluent from the unit shall not exceed **2 KLD.**

(ii) **Domestic Effluent treatment and Disposal:-**

The unit shall be treated in sewage treatment plant of GMR Airport, so as to achieve the quality of the treated effluent to the following standards:

	Between	5.5 & 9.0
pH	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20
BOD, 3 days, 27° C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10mg/l
NH4-N	Not to exceed	5mg/l
N-Total	Not to exceed	10mg/l
Fecal Coliform	Less than	100mg/l

- (iii) good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas & water body.
- (iv) **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 with due permission from the Board.**
- (v) **Non-Hazardous Solid Waste:**  
All the Solid wastes arising in the unit premises shall be properly classified and disposed off to the satisfaction of the Board as follows:

Sr. no.	Type of segregated solid waste	Quantity	Disposal
1.	Dry/Wet waste (MSW)	60 Kg/month	To be disposed through Airport waste management.
2.	Wooden pallets	20 Metric Tonnes/Year	To be Sold to recyclers / agency registered with the Board.

- (vi) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No.	Date	Quantity of wet/dry waste	Name of agency collecting the wet/ dry waste	Authorized Signatory

**4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:**

- (i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No	Name of Equipments/ Installation	No of Installati on	Capacity	SO <sub>2</sub> Kg/Hr	NO <sub>x</sub>	HC CO PM		
						(g/kw-hr)		
1.	D. G. Set	01	500 KVA	3.6	9.2	1.3	3.5	0.3

- (ii) The unit shall erect the chimney(s) of the following specifications

Sr. No	Chimney attached to	Height
1.	D. G. Set(for 500 KVA)	22 meters

- (iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	D. G. Set(for 500 KVA)	50 liters/hr.

- (iv) **The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring – Material & methodology for isokinetic sampling**
- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.



- (vi) The unit should carry out emission monitoring from the stacks once a year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows:

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

- (viii) The unit shall comply to the Notification issued by the Department of Environment vide Notification Series II No.42 dated 13<sup>th</sup> January 2022 regarding The Noise Pollution (Regulation and Control) Rules 2000, in view of the directions dated 15/03/2019 issued by the Hon'ble NGT in O.A. 681/2018.

#### 5. GENERAL CONDITIONS:

- i. Trees shall be planted and maintained around the plant in an area at least 4 times the built area of the industry. Green belt development shall be started along with the construction activity.
- ii. The applicant shall not change or alter the quantity of discharge and the mode of disposal of the effluent without previous written permission of the Board.
- iii. The applicant shall provide facilities for collection of the samples to the Board staff
- iv. The unit shall discharge the treated effluents preferably on land for irrigation / gardening / lawn within their own premises or re-use after suitable treatment.
- v. Stack heights for a (Diesel generator set(s) shall be as follows:  
 Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + \sqrt[3]{KVA}$  where H – total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.  
 The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:  
 The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.
- vi. The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

- vii. The unit shall implement the following Rules and Regulations notified by the Ministry of Environment, Forests & Climate Change (MoEF & CC), Govt. of India.
- a) Hazardous and Other Wastes (Management and Transboundary Movement) Rules, Amendment 2018.
  - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989.
  - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro organism /- Genetically Engineered Organisms or Cell, 1989.
- viii. There shall not be any perceptible odour outside the industrial premises.
- ix. All the Rules and Regulations notified by the Ministry of Environment, Forests and Climate Change (MoEF & CC), Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- x. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (*Prevention and Control of Pollution*) Act 1974 and under section 21(4) of the Air (*Prevention and Control of Pollution*) Act 1981 to review any or all the conditions imposed hereby.
- xi. Any change in the details made after the submission of the application / after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- xii. **This Consent to Establish (CTE) is granted without any prejudice to any other permission(s) required under any laws, bye – laws and regulations in force.**
- xiii. The unit should obtain permission from the Forest Department / Wild Life Board wherever applicable.
- xiv. The unit may like to implement rain-water harvesting and ground water re-charge measures before submitting an application for Consent to Operate.
- xv. The unit shall / generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under Bio-Medical Waste Management Amended Rules, 2018. Any activity as defined under BMW Rules has to obtain a separate Authorisation from Goa State Pollution Control Board.
- xvi. The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- xvii. The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (*Prevention and Control of Pollution*) Act, 1974 and under section 21 of the Air (*Prevention and Control of Pollution*) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant.
- xviii. The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- xix. The unit shall submit returns for disposal of batteries under the Batteries (*Management & Handling*) Rules 2001, if applicable.

- xx. The unit shall submit returns for disposal of e - waste under the E- Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxi. The unit shall submit returns for disposal of plastic waste under the Plastic Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxii. The unit shall comply to the Guidelines and dust mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website -- [www.goaspcb.gov.in](http://www.goaspcb.gov.in)
- xxiii. **The import, stocking, distribution, sale and use of following single use plastic, including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July, 2022 as per the Plastic Waste Management (Amendment) Rules, 2021.**

To,  
**M/s. GMR Airports Limited - Air Cargo Terminal**  
*(Represented by: Shri Saurabh Kumar)*  
**Green Field International Airport,**  
**Mopa, 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. 1,986,00,00,000/-**

Cheque no.	Amount	Date
22097828557	Rs.84000	07/04/2021

**(Dr. Shamila Monteiro)**  
**Member Secretary**  
**For Goa State Pollution Control Board**

## CUSTOMER FEEDBACK

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name : ..... Contact .....

Address:.....

.....Email: .....Date .....

Name of the service availed: .....

Are you aware that service standards are included in the Citizen's Charter as available on Board's website : [www.goaspcb.gov.in](http://www.goaspcb.gov.in)?Yes  No 

If yes, is the Citizen Charter simple and easy to understand?

Yes  No 

Describe service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....

.....

.....

Signature &amp; date

To,  
The Member Secretary,  
Goa State Pollution Control Board,  
Near Pilerne Industrial Estate,  
Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

- ❖ Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

**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, 2407702  
Tel/Fax No: 0832- 2407700



Email Ids:  
Chairman, GSPCB, [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in)  
Member Secretary, GSPCB, [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)  
Office. mail.gspcb@gov.in

No.12/2022-PCB/1223590/R0009477

Date: 08/06/2022

Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6(i) of the Hazardous 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 Establish is hereby granted to:

**M/s. GGIAL TERMINAL HOTEL**  
(Represented by: Mr. Ranganathan Venkata Sheshan)  
(Red Category)

Within the premises of GMR Goa International Airport Limited,  
Mopa, Pernem, Goa

Located in the area declared under the provisions of the Water Act, Air Act and Authorization under the provisions of HW (M & T) Rules, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions

1. The Consent to Establish is valid upto commissioning of the unit or 3 years whichever is earlier.

2. This Consent to Establish is valid for:

Sr. No	Description	Quantity
1.	Rooms	220 Rooms
2.	Restaurant	2 nos. (230 persons seating capacity)

3. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

(i) The daily quantity of effluent from the hotel & Restaurant (sewage & sullage) shall not exceed **136 K.L.D.**

(ii) **Sewage Treatment Plant:**

The hotel shall install sewage treatment plant (200 KLD capacity) of MBBR technology, as proposed, consisting of primary treatment comprising of Bar screen & oil & grease trap, secondary treatment comprising of aeration / MBR reactor & clarifier tank and tertiary treatment comprising of pressure sand 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:

	Between	5.5 & 9.0
pH	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20
BOD, 3 days, 27° C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10mg/l
N-Total	Not to exceed	10mg/l
Fecal Coliform	Less than	100mg/l

(iii) **Sewage Disposal:**

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 hotel premises.

(iv) The hotel shall provide a proper Oil and Grease Trap for effluent arising from its kitchen and laundry and shall have to comply with the 'General Standards for Discharge of Environmental Pollutants Part-A: Effluents' notified under Schedule-VI

(v) A good house-keeping shall be maintained within the hotel 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.

(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	25 kg/ per day	Proposed to compost within premises
2	Non bio degradable waste	15 kg/ per day	To be disposed through the local body.
3	Used cooking oil	50 litres/day	To be disposed through authorized recycler.

(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 hotel industry shall provide machinery/equipment/facility for converting bio-degradable/ organic waste generated from the hotel to compost so as to meet the standard for compost prescribed in the Solid Waste Management 2016.

**4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:**

(i) The hotel unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No.	Name of Equipments/ Installation	No of Installation	Capacity	SO <sub>2</sub> Kg/Hr	NO <sub>x</sub>	HIC	CO	PM
					(g/kw-hr)			
1.	D.G. set	02	625 KVA	6.48	9.2	1.3	3.5	0.3

(ii) The hotel unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1.	D.G. set (for 625 KVA)	12 meters

(iii) The hotel unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. (for 625 KVA D.G. set)	90 litres /hr

(iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring –Material & methodology for isokinetic sampling.

(v) The hotel unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

- (vi) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

- (vii) The unit shall comply to the Notification issued by the Department of Environment vide Notification Series II No.42 dated 13th January 2022 regarding The Noise Pollution (Regulation and Control) Rules 2000, in view of the directions dated 15/03/2019 issued by the Hon'ble NGT in O.A. 681/2018.

## 5. GENERAL CONDITIONS

- (i) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- (ii) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning, etc. shall be done.
- (iii) Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- (iv) The project proponent will provide landscape bed of 600mm wide X 600mm deep along the periphery of the plot to carry out plantation of trees. The treated water from the sewage treatment plant will be pumped through high flow drips on these beds to prevent outflow of treated sewage water outside the premises.
- (v) The applicant shall not change or alter the quantity, the rates of discharge, temperature and the mode of disposal of the effluent without previous written permission of the Board.
- (vi) The applicant shall provide facilities for collection of the samples to the Board staff.
- (vii) The applicant shall discharge the treated effluents preferably on land for irrigation/ gardening/ lawn within their own premises or re-use after suitable treatment.
- (viii) Stack heights for a (Diesel generator set(s) shall be as follows:
- (a) Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + \sqrt[0.2]{KVA}$  where H - total height of the stack in meters, h - height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.  
The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:  
The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.
- (ix) The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

- (x) The applicant shall implement the following Rules and Regulations notified by the Ministry of Environment and Forests, Govt. of India.
- a) Hazardous Wastes (Management) Rules, 2016;
  - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989;
  - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro – organism / Genetically Engineered Organisms or Cell, 1989.
- (xi) There shall not be any perceptible odour outside the premises.
- (xii) All the Rules and Regulations notified by the Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- (xiii) Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 21(4) of the Air (Prevention and Control of Pollution) Act 1981 to review any or all the conditions imposed hereby.
- (xiv) Any change in the details made after the submission of the application/ after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- (xv) This Consent to Establish is granted without any prejudice to any other permissions(s) required under any laws, bye laws and regulations in force.
- (xvi) The unit should obtain permission from the Forest Department/ Wild Life Board wherever applicable.
- (xvii) The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Government of Goa and Directorate of Industries, Trade and Commerce, Government of Goa, before submitting an application for Consent to Operate.
- (xviii) The unit/ generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste (Management) Rules, 2016. Any activity as defined under BMW (M) Rules has to obtain a separate Authorization from Goa State Pollution Control Board.
- (xix) The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- (xx) The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant
- (xxi) Reliable flow meter shall be installed to maintain record of water consumption / waste water consumption per day. This records so maintained shall be made available to the Board officials whenever required.
- (xxii) 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.
- (xxiii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable



- (xxiv) The hotel unit shall submit returns for disposal of batteries under the Batteries (*Management & Handling*) Rules 2001, if applicable.
- (xxv) The hotel unit shall submit returns for disposal of e - waste under the E- Waste Management Rules 2016, as amended thereafter, if applicable.
- (xxvi) The hotel unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- (xxvii) **The unit shall comply to the guidelines and DUST Mitigation measures in handling Construction material and C and D waste issued by Central Pollution Control Board and are placed on Board website goaspcb. gov. in.**
- (xxviii) **The unit shall comply to the Circular issued by the Board regarding “ Mechanism/Guidelines for Control of Pollution and Enforcement of Environment norms at individual establishments and the area/cluster of Restaurants/hotels/motels/banquets etc. in view of the NGT Order in OA No 400/201 dated 10/06/2021 and as amended thereafter.**
- (xxix) **The import, stocking, distribution, sale and use of following single use plastic, including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July, 2022 as per the Plastic Waste Management (Amendment) Rules, 2021.**

To,  
**M/s GGIAL Terminal Hotel**  
 C/o by: Shri. Ranganathan Venkata Sheshan  
 Grienfield Airport,  
 Mopa, Pernem-Goa

Copy to:- 1 Accounts Section  
 2 Concerned File  
 3 Guard File

Received Consent fee of: **The Capital Investment of the unit is Rs. 110 Crores**

Cheque no.	Amount	Date
320220322002306	Rs. 200700/-	22/03/2022

(Dr. Shamila Monteiro)  
 Member Secretary  
 For Goa State Pollution Control Board

## CUSTOMER FEEDBACK

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name : ..... Contact .....

Address: .....

Email: ..... Date.....

Name of the service availed: .....

Are you aware that service standards are included in the Citizen's Charter as available on Board's website

:www.goaspcb.gov.in?

Yes  No 

If yes, is the Citizen Charter simple and easy to understand?

Yes  No 

Description of service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....

.....

.....

Signature &amp; date

To,  
The Member Secretary,  
Goa State Pollution Control Board,  
Near Pilerne Industrial Estate,  
Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

❖ Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

**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, 2407702  
Tel/Fax No: 0832- 2407700



Email Ids:  
Chairman, GSPCB, [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in)  
Member Secretary, GSPCB, [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)  
Office: [mail.gspcb@gov.in](mailto:mail.gspcb@gov.in)

No.12/2022-PCB/1200120/O0009302

Date: 10/06/2022

**Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6(i) of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2016, As amended thereafter**

**[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]**

Consent to Establish is hereby granted to:

**M/s. TAJSATs AIR CATERING LIMITED**  
(Represented by: Mr. Probal Dey)  
(Orange Category)

**Within the premises of GMR Goa International Airport Limited,  
Mopa, Pernem, Goa**

Located in the area declared under the provisions of the Water Act, Air Act and Authorization under the provisions of HW (M & T) Rules, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions

- The Consent to Establish is valid upto commissioning of the unit or 3 years whichever is earlier.
- This Consent to Establish is valid for operation of:

Sr. No	Description	Quantity
1.	In-flight Air Catering unit	7000 meals/ day

3. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

- The daily quantity of effluent from the catering unit (sewage & sullage) shall not exceed **45 K.L.D.**

- Sewage Treatment Plant:**

The catering unit shall install sewage treatment plant (60 KLD capacity) of MBBR technology, as proposed, consisting of primary treatment comprising of Bar screen & oil & grease trap, secondary treatment comprising of aeration / MBR reactor & clarifier tank and tertiary treatment comprising of pressure sand 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:

pH	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20
BOD, 3 days, 27° C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10mg/l

NH4-N	Not to exceed	5mg/l
N-total	Not to exceed	10mg/l
Fecal Coliform	Less than	100mg/l

(iii) **Sewage Disposal:**

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 premises.

(iv) **The unit shall provide a proper Oil and Grease Trap for effluent arising from its kitchen and laundry and shall have to comply with the 'General Standards for Discharge of Environmental Pollutants Part-A: Effluents' notified under Schedule-VI**

(v) A good house-keeping shall be maintained within the premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

(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 by:

The total quantity shall be segregated and treated as follows:

Sr. no.	Type of segregated solid waste	Quantity	Disposal
1.	Dry waste	4.5 MT/month	To be Disposed through authorized vendor
2.	Wet waste	4.5 MT/month	To be composted through organic waste converter
3	Used cooking oil	200 Lit/month	To be disposed through registered vendors

(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 catering unit should install/establish machinery/equipment/facility for converting bio-degradable /organic waste generated from the unit to compost so as to meet the standard for compost prescribed in the Municipal Solid Waste (Management & Handling) Rules, 2000.**

(ix) **The unit should have zero discharge policy. i.e. the treated waste water may be re-used in process/green belt development/or any other use as deemed fit by the unit with due permission from the Board.**

**4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT**

(i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No.	Name of Equipments/ Installation	No of Installation	Capacity	SO <sub>2</sub> Kg/Hr	(g/kw-hr)			
					NO <sub>x</sub>	HC	CO	PM
1.	D.G. Set	1	750 KVA	2.88	9.2	1.3	3.5	0.3

(ii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1.	D.G. Set (750 KVA)	15 mtrs

(iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	D.G. Set (750KVA)	40 ltrs/hr

(iv) **The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method I Part 1 of Stack Monitoring –Material & methodology for isokinetic sampling.**

(v) The catering unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

(vi) The catering unit should carry out emission monitoring from the stacks once in 3 months from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board by the 15<sup>th</sup> of subsequent month.

(vii) The catering unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) L <sub>eq</sub>	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

(viii) **The unit shall comply to the Notification issued by the Department of Environment vide Notification Series II No.42 dated 13<sup>th</sup> January 2022 regarding The Noise Pollution (Regulation and Control) Rules 2000, in view of the directions dated 15/03/2019 issued by the Hon'ble NGT in O.A. 681/2018.**

**5. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT)RULES 2016, AS AMENDED THEREAFTER:**

(i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
I	5.1	Used/Spent oil	200 litres/ annum	To recycler registered with SPCB and having valid authorization of SPCB

(ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.

(iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.

(iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the 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 21 (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 Amended 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
- Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- (xiii) The unit shall put up a display board at prominent location near the main gate providing details as per the proforma @ <http://goaspcb.gov.in/Hazardous-Waste-Management> for display of information related to Air, Water and Hazardous Waste generation.
- (xiv) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- (xv) The unit shall submit annual returns online in prescribed format on or before 30<sup>th</sup> June of every year

**6. GENERAL CONDITIONS:**

- i. Trees shall be planted and maintained around the plant in an area at least 4 times the built area of the industry. Green belt development shall be started along with the construction activity.
- ii. The applicant shall not change or alter the quantity of discharge and the mode of disposal of the effluent without previous written permission of the Board.
- iii. The applicant shall provide facilities for collection of the samples to the Board staff.
- iv. The unit shall discharge the treated effluents preferably on land for irrigation / gardening / lawn within their own premises or re-use after suitable treatment.

- v. Stack heights for a (Diesel generator set(s) shall be as follows:  
 Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + \sqrt[0.2]{KVA}$  where H – total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.  
 The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:  
 The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.
- vi. The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- vii. The unit shall implement the following Rules and Regulations notified by the Ministry of Environment, Forests & Climate Change (MoEF & CC), Govt. of India.  
 a) Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as amended thereafter.  
 b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989.  
 c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro-organism /- Genetically Engineered Organisms or Cell, 1989.
- viii. There shall not be any perceptible odour outside the premises.
- ix. All the Rules and Regulations notified by the Ministry of Environment, Forests and Climate Change (MoEF & CC), Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- x. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 21(4) of the Air (Prevention and Control of Pollution) Act 1981 to review any or all the conditions imposed hereby.
- xi. Any change in the details made after the submission of the application / after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- xii. **This Consent to Establish (CTE) is granted without any prejudice to any other permission(s) required under any laws, bye – laws and regulations in force.**
- xiii. The unit should obtain permission from the Forest Department / Wild Life Board wherever applicable.
- xiv. The unit may like to implement rain-water harvesting and ground water re-charge measures before submitting an application for Consent to Operate.
- xv. The unit shall / generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under Bio-Medical Waste Management Amended Rules, 2018. Any activity as defined under BMW Rules has to obtain a separate Authorization from Goa State Pollution Control Board.

- xvi. The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- xvii. The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (*Prevention and Control of Pollution*) Act, 1974 and under section 21 of the Air (*Prevention and Control of Pollution*) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant.
- xviii. The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- xix. The unit shall submit returns for disposal of batteries under the Batteries (*Management & Handling*) Rules 2001, if applicable.
- xx. The unit shall submit returns for disposal of e - waste under the E- Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxi. The unit shall submit returns for disposal of plastic waste under the Plastic Waste *Management* Rules 2016 as amended thereafter, if applicable.
- xxii. The unit shall comply to the Guidelines and dust mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website – [www.goaspcb.gov.in](http://www.goaspcb.gov.in)
- xxiii. The import, stocking, distribution, sale and use of following single use plastic, including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July, 2022 as per the Plastic Waste Management (Amendment) Rules, 2021.

**To,**  
**M/s. TAJSAATS AIR CATERING LIMITED**  
**C/o. Mr. Probal Dey**  
**Within the premises of GMR Goa International Airport Limited,**  
**Mopa, Pernem, Goa**

Copy to:-

1. Accounts Section
2. Concerned File
3. Guard File

Received Consent fee of: **The Capital Investment of the unit is Rs. 26.02 Crore/-**

Cheque no.	Amount	Date
522144	Rs. 67400	17/03/20202

**(Dr. Shamila Monteiro)**  
**Member Secretary**  
**Goa State Pollution Control Board**



## CUSTOMER FEEDBACK

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name : .....

Contact .....

Address: .....

Email: ..... Date: .....

Name of the service availed: .....

Are you aware that service standards are included in the Citizen's Charter as available on Board's website  
: [www.goaspcb.gov.in](http://www.goaspcb.gov.in)?Yes  No 

If yes, is the Citizen Charter simple and easy to understand?

Yes  No 

Description of service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....  
.....

Signature &amp; date

To,  
The Member Secretary,  
Goa State Pollution Control Board,  
Near Pilerne Industrial Estate,  
Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

- ❖ Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT,  
FOREST & CLIMATE CHANGE

समन्वित क्षेत्रीय कार्यालय

INTEGRATED REGIONAL OFFICE

Kendriya Sadan, IVth Floor, E& FWings,

17<sup>th</sup> Main Road,

IInd Block, Koramangala, Bangalore - 560  
034.

Tel.No.080-25635905, E.Mail:

rosz.bng-mef@nic.in



**BY SPEED POST**

F.No.4- GOC1354/2022-BAN

Dated the 15<sup>th</sup> June, 2022

333

To

The Principal Secretary (Forests),  
Government of Goa,  
Secretariat Annexe, Secretariat,  
Porvorim, Goa -403 521.

**Subject:** Diversion of 6.856 ha of forest land in Sy.No.19 of Chandel Village of Pernem Taluka, North Goa Forest Division & District for CAT-I Approach Surface Area for International Airport at Mopa in Goa in favour of Director, Directorate of Civil Aviation, Government of Goa.

Sir,

I am directed to refer to the State Government's letter No.6-856-2022-23-FD/Vol.III/368 dated 28/04/2022, email dated 28<sup>th</sup> April, 2022 received from Deputy Conservator of Forest (M&E) Goa Forest Department seeking prior approval of the Central Government under Section'2' of the Forest (Conservation) Act, 1980 for the above project. The in-principle (Stage-I) approval to the project was accorded by the Central Government vide letter of even number dated 3<sup>rd</sup> May, 2022. The State Government vide letter No.6-856-2022-23-FD/Vol.III/922 dated 01.06.2022, 6-856-2022-23-FD/Vol.III/1118 dated 10.06.2022 and 6-856-2022-23-FD/Vol.III/1174 dated 14.6.2022 have reported compliance to the conditions stipulated by the Central Government in the in-principle approval.

After careful consideration of the proposal of the State Government, I am directed to convey Central Government's final approval (**Stage-II**) under Section'2' of Forest (Conservation) Act, 1980 for diversion of 6.856 ha of forest land in Sy.No.19 of Chandel Village of Pernem Taluka, North Goa Forest Division & District for CAT-I Approach Surface Area for International Airport at Mopa in Goa in favour of Director, Directorate of Civil Aviation, Government of Goa subject to the following conditions:-

SM

1. The legal status of diverted forest land shall remain unchanged.
2. The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost as per the directions of concerned Divisional Forest Officer.
3. Compensatory Afforestation in the identified revenue land of 7.3221 ha. at Varconda Village in Survey Nos.82(P), 83/12(P),83/13(P),83/14(P),83/15(P),83/16(P),84/1(P)&96(P) shall be raised and maintained by the Forest Department at the cost of user agency within three years of Stage-II approval. The State Government shall obtain prior permission of Central Government for change of location and schedule of compensatory afforestation, if any.
4. Additional amount of the Net Present Value (NPV) of the diverted forest land if any becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from User Agency and the same shall be transferred to the designated CAMPA Account.
5. The conditions required to be adhered under Forest Rights Act, 2006 shall be strictly complied with before handing over the area to the User Agency.
6. The User Agency shall restrict the felling of trees to minimum number in the diverted forest land and felling/pollarding of trees as and when required shall be done in consultation with the Forest Department.
7. Wherever trees are proposed to be felled, stumps should be retained and appropriate Soil and Moisture Conservation Works in the area shall be taken up at the cost of User Agency.
8. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.
9. No labour camp shall be established on the forest land.
10. The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required.
11. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.
12. No damage to the flora and fauna of the adjoining area shall be caused.
13. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
14. No construction activity shall be taken up in the area proposed for diversion.
15. The total forest area utilized for the project shall not exceed 6.856 ha.
16. Monitoring should be carried out on six monthly basis in order to ascertain adverse impact on avi-fauna & man-animal conflict.
17. Artificial nesting space shall be identified and developed (artificial nest boxes, etc) by the Forest Department for avifauna outside the funnel area at the cost of User Agency.
18. The User Agency shall provide space for the Forest Department as a centre for animal rescue to address man-animal conflict in the airport area, as the area is adjacent to good forest.
19. The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government and Integrated Regional Office, Bangalore by the end of March every year.
20. Any other condition that the Ministry of Environment, Forest and Climate Change may stipulate from time to time in the interest of conservation, protection and



development of Forest and Wildlife.

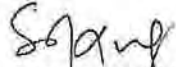
21. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.
22. The State Government and user agency shall comply the provisions of the all Acts, Rules, Regulations, Guidelines, NGT order & Hon'ble Court Order (s) pertaining to this project, if any, as applicable to the project.

Yours faithfully,

  
(M.K. SHAMBHU)  
Deputy Inspector General of Forests (Central)

Copy to:-

1. The Principal Chief Conservator of Forests, Government of Goa, Forest Department, Panaji (Goa), PIN- 403 001 (Goa).
2. The Deputy Conservator of Forests (Monitoring & Evaluation) & Nodal Officer (FCA), Office of the Additional Principal Chief Conservator of Forests, Government of Goa, Forest Department, Panaji (Goa), PIN- 403 001.
3. The Director, Directorate of Civil Aviation, Government of Goa, Room No.19, Secretariat, Porvorim, Goa, PIN-403 521.
4. Guard file.

  
(M.K. SHAMBHU)  
Deputy Inspector General of Forests (Central)

# 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,  
2407701,2407702  
Tel/Fax No: 0832- 2407700



Email Ids:  
Chairman, GSPCB, [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in)  
Member Secretary, GSPCB, [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)  
Office, [mail.gspcb@gov.in](mailto:mail.gspcb@gov.in)

No.12/2022-PCB/1242718/R0009589

Date: 04/08/2022

**Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6(i) of the Hazardous And Other Waste (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. Ranganathan Venkata Sheshan)  
(Red Category)

**Mopa, Pernem - 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 is Consent to Operate is valid upto 28/04/2027
2. This Consent to Operate is valid for the operation of :

Sr. No	Description	Capacity
1.	03 nos. of D.G. sets (Standby Power Source)	2000 KVA each

3. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

- (i) A good house-keeping shall be maintained within unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall not be allowed to find way in open areas.

(ii) **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.

#### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

- (i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No.	Name of Equipments/ Installation	No of Installation	Capacity	SO <sub>2</sub> Kg/1hr	Particulate Matter mg/Nm <sup>3</sup>
1.	D.G. Set	03	2000 KVA	51.12	75

- (ii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1.	D.G. set (2000 KVA)	30 meters

- (iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. for 2000 KVA D.G. set	710 litres/hr.

- (iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring - Material & methodology for isokinetic sampling.

- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

- (vi) The unit should carry out emission monitoring from the stacks once in 3 months from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the results shall be submitted to this Board.

- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

*Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.*

#### 5. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTE 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	80 litres/annum	To recycler registered with SPCB and having valid authorization of SPCB

- (ii) The authorizer shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made thereunder.

- (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 Waste (Management, & Transboundary Movement) Rules 2016, as amended thereafter.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCMMS systems.
- (xii) **The occupier shall furnish annual returns online for collection, storage and disposal of hazardous waste in Form 4 by 30<sup>th</sup> June of every year for the preceding period April to March.**
- (xiii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used
- (xiv) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.

6. **GENERAL CONDITIONS:**

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or hazardous wastes or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent, air emissions and hazardous wastes to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. 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 and this 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 30<sup>th</sup> 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 as applicable.
- (x) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001, if applicable.
- (xi) The unit shall submit returns for disposal of e-waste under the E-Waste Management Rules 2016, as amended thereafter.
- (xii) The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter.
- (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](http://www.goaspcb.gov.in).



- (xiv) The import, stocking, distribution, sale and use of single use plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited 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.

To,  
M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED  
C/o. Mr. Ranganathan Venkata Sheshan,  
Mopa, Pernem – Goa

Copy to:-

1. Accounts Section
2. Concerned File
3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs. 16.30 Crores

Cheque no.	Amount	Date
320220518004052	Rs. 12,97440/- (NOC fees)	25/05/2022

(Dr. Shamila Monteiro)  
Member Secretary  
Goa State Pollution Control Board

## CUSTOMER FEEDBACK

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name : ..... Contact .....

Address .....

Email ..... Date.....

Name of the service availed .....

Are you  re that service standards are include  the Citizen's Charter as available on Board's website : [www.goaspcb.gov.in](http://www.goaspcb.gov.in)? Yes

No

If yes, is the Citizen Charter simple and easy to understand?

Yes  No 

Description of service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....

.....

.....

Signature &amp; date

To,  
The Member Secretary,  
Goa State Pollution Control Board,  
Near Pilerne Industrial Estate,  
Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

❖ Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

-----  
Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez. Goa-403511

Page 6 of 6

Appendix -9

One time approval for Landing/Touch and Go by Indigo Aircraft for conducting Instrumental Flight Trails

GOVERNMENT OF INDIA  
DIRECTORATE GENERAL OF CIVIL AVIATION  
OPP. SAFDARJUNG AIRPORT  
NEW DELHI - 110003  
TELEFAX: 091-011-24653883  
EPBX 24622495/ Ext.275



भारत सरकार  
नागर विमानन महानिदेशालय  
सफदरजंग एयरपोर्ट के सामने  
नई दिल्ली-११०००३

संख्या : AV.20024/17/2000-AL  
दिनांक : 12.08.2022

To

Chief Executive Officer  
GMR Goa International Airport Limited (GGIAL)  
Survey No. 381/3, Mathura one, 1st Floor  
NH-17, Porvorim, Goa-403501

Sub: One time approval for Landing/Touch & Go by Indigo aircraft between 22.08.2022 and 27.08.2022 for conducting Instrument Flight Trials at New Goa Airport, Mopa.

Sir,

Reference is invited to GGIAL letter no. GGIAL/DGCA/2022-23/1105 dated 05.08.2022 vide through subject approval was sought.

Based on data provided and compliance indicated on minimum aerodrome infrastructure at New Goa airport, Mopa by GGIAL, the Competent Authority has granted one time approval to GGIAL for Landing/Touch & Go by Indigo aircraft for conducting Instrument Flight Trials at New Goa Airport, Mopa between 22.08.2022 and 27.08.2022 to the following conditions:

1. Runway, Taxiway and Apron facilities and other associated infrastructure/facilities be ensured in accordance to minimum requirements as specified in CAR.
2. Airport Rescue and Fire Fighting category as per requirement be maintained to deal with exigency scenario.
3. Ensure serviceability of NAV aids i.e. ILS, VOR, and DME and visual aids provided at aerodrome.
4. Necessary arrangement for aerodrome operational manpower and procedures for safe flight operations be ensured.
5. Ensure coordination for availability of airspace for accommodating the instrument flights trials.

Further, GGIAL is advised to provide all the necessary information to aircraft operator and aircraft operator should carry out their own safety risk assessment based on available infrastructure before commencement of trials flight.

Yours sincerely,

*Parmod Kumar*

(Parmod Kumar)

Deputy Director of Operations (Aero-stds.)  
For Director General of civil Aviation

Copy to: O/o Deputy Director General, Western Region, Mumbai, DGCA (Kind Attn: Director (Operations))-for information.

Appendix -10

Installation permission for 3x2000 KVA DG set

95

No.140/2/CEE/Teel./Con/ 728  
Office of the  
Chief Electrical Engineer,  
Government of Goa,  
Vidyut Bhavan, 3<sup>rd</sup> Floor,  
Panaji-Goa.

Dated: -12/08/2022

To,  
M/s GMR Goa International Airport Limited,  
Survey No. 381/3,  
Mathura One, 1<sup>st</sup> floor,  
NH 17, Porvorim, Goa, 403 501.

**Sub:- Permission to install 2000 KVA D.G. Set at MOPA  
AIRPORT, Pernem-Goa.**

Ref:- Your letter dated:-05/07/2022.

<u>DESCRIPTION</u>	<u>ALTERNATOR</u>	<u>ENGINE</u>
1) Make	Stamford	Cummins India Limited
2) Capacity	2000 KVA	2567 BHP
3) Sr. No.	N22D147849	85012145
4) Phase	Three	

Sir,

With reference to your above application, permission is accorded under Section-9 of the Electricity Act, 2003 for installing and running a Generating Set having details furnished in your above cited application, subject to the following conditions:-

1. That the generator shall be utilized to generate power for bonafide use only and the power so generated shall not be sold to anybody.
2. That the set shall be open for inspection to the Sub Divisional Engineer, Electricity Department of the area, before being commissioned and periodically thereafter.
3. That the operation of the generator shall not at any time be prejudicial to the interest of the Department.
4. Advance intimation regarding the commissioning of the generating set and other details should be sent to the Sub-divisional Engineer, Electricity Department of the area.
5. This permission is valid only for a period of six months from the date of issue within which the generator set shall be commissioned failing which it has to be renewed.

Cont ...2/-

In addition to the above, the following formalities will have to be followed by the applicant:-

1. The wiring of the installation should be carried out through a licensed Electrical Contractor holding a current valid license under the Rule-45 of the I.E Rules, 1956 and the Contractor's completion and Test Report should be sent to the Sub-Divisional Engineer, Electricity Department of the area.
2. Thirty days notice in writing of the intention to generate, transmit or use of energy be given to the Electrical Inspector and the District Magistrate, as provided under Rule-47-A of the Indian Electricity Rules, 1956 wherever applicable.
3. Use If the Generator is to be installed in a factory or the prime mover to be installed in a Boiler, it may be necessary to obtain the permission of the Inspector of Factory and Boilers under the provision of the Factory Act.
4. If the capacity of the D.G. set is more than 10 K.W. a suitable energy meter has to be installed to measure the energy generated. The monthly energy generated shall be intimated to the concerned sub-divisional officer.
5. Date of commissioning of the D.G. set shall be intimated to this office.
6. The D.G. set shall not be allowed to run in parallel with the Department's supply.
7. *Approval of the Electrical Inspector shall be obtained for the installation of the generator, and the certified copy of the approval shall be produced to the concerned Divisional Officer and his concurrence obtained before commissioning the set.*
8. The approval is granted to generate power for standby use only.
9. This issues with approval of Chief Electrical Engineer.

Yours faithfully,

Superintending Engineer ( Com)

Copy to: -

- 1) The Electrical Inspector, State Electrical Inspectorate, 5<sup>th</sup> floor, GIDC, Patta, Panaji - Goa.--- He is requested to intimate this office regarding date of approval for commissioning of the D.G. set.
- 2) The Executive Engineer, Elect. Division -Div XVII, Mapusa-Goa.
- 3) The Sub-divisional Engineer, Elect. Sub Div. -I, Pernem- Goa.

No. 140/2/CEE/Tech/Com/ 727  
 Office of the  
 Chief Electrical Engineer,  
 Government of Goa,  
 Vidyut Bhavan, 3<sup>rd</sup> Floor,  
Panaji-Goa.

Dated: 12/08/2022

To,  
 M/s GMR Goa International Airport Limited,  
 Survey No. 381/3,  
 Mathura One, 1<sup>st</sup> floor,  
 NH 17, Porvorim, Goa, 403 501.

**Sub:- Permission to install 2000 KVA D.G. Set at MOPA  
 AIRPORT, Pernem, Goa.**

Ref :- Your letter dated:-05/07/2022.

<u>DESCRIPTION</u>	<u>ALTERNATOR</u>	<u>ENGINE</u>
1) Make	Stamford	Cummins India Limited
2) Capacity	2000 KVA	2567 BHP
3) Sr. No.	N22D147968	85012143
4) Phase	Three	

Sir,

With reference to your above application, permission is accorded under Section-9 of the Electricity Act, 2003 for installing and running a Generating Set having details furnished in your above cited application, subject to the following conditions:-

1. That the generator shall be utilized to generate power for bonafide use only and the power so generated shall not be sold to anybody.
2. That the set shall be open for inspection to the Sub Divisional Engineer, Electricity Department of the area, before being commissioned and periodically thereafter.
3. That the operation of the generator shall not at any time be prejudicial to the interest of the Department.
4. Advance intimation regarding the commissioning of the generating set and other details should be sent to the Sub-divisional Engineer, Electricity Department of the area.
5. This permission is valid only for a period of six months from the date of issue within which the generator set shall be commissioned failing which it has to be renewed.

In addition to the above, the following formalities will have to be followed by the applicant:-

1. The wiring of the installation should be carried out through a licensed Electrical Contractor Holding a current valid license under the Rule-45 of the I.E Rules, 1956 and the Contractor's completion and Test Report should be sent to the Sub-Divisional Engineer, Electricity Department of the area.
2. Thirty days notice in writing of the intention to generate, transmit or use of energy be given to the Electrical Inspector and the District Magistrate, as provided under Rule-47-A of the Indian Electricity Rules, 1956 wherever applicable.
3. Use If the Generator is to be installed in a factory or the prime mover to be installed in a Boiler, it may be necessary to obtain the permission of the Inspector of Factory and Boilers under the provision of the Factory Act.
4. If the capacity of the D.G. set is more than 10 K.W. a suitable energy meter has to be installed to measure the energy generated. The monthly energy generated shall be intimated to the concerned sub-divisional officer.
5. Date of commissioning of the D.G. set shall be intimated to this office.
6. The D.G. set shall not be allowed to run in parallel with the Department's supply.
7. *Approval of the Electrical Inspector shall be obtained for the installation of the generator, and the certified copy of the approval shall be produced to the concerned Divisional Officer and his concurrence obtained before commissioning the set.*
8. The approval is granted to generate power for standby use only.
9. This issues with approval of Chief Electrical Engineer.

Yours faithfully,

Superintending Engineer ( Com)

Copy to:-

- 1) The Electrical Inspector, State Electrical Inspectorate, 5<sup>th</sup> floor, GIDC, Patto, Panaji – Goa.--- He is requested to intimate this office regarding date of approval for commissioning of the D.G. set.
- 2) The Executive Engineer, Elect. Division –Div XVII, Mapusa-Goa.
- 3) The Sub-divisional Engineer, Elect. Sub Div. -I, Pernem- Goa.

No.140/2/CEE/Tech/Com/ 726  
Office of the  
Chief Electrical Engineer,  
Government of Goa,  
Vidya Bhavan, 3<sup>rd</sup> Floor,  
Panaji-Goa.

Dated: -12/08/2022

To,  
M/s GMR Goa International Airport Limited,  
Survey No. 381/3,  
Mafura One, 1<sup>st</sup> floor,  
NH 17, Porvorim, Goa, 403 501.

**Sub:- Permission to install 2000 KVA D.G. Set at MOPA  
AIRPORT, Pernam, Goa 403 512.**

Ref :- Your letter dated:-05/07/2022.

<u>DESCRIPTION</u>	<u>ALTERNATOR</u>	<u>ENGINE</u>
1) Make	Stamford	Cummins India Limited
2) Capacity	2000 KVA	2567 B11P
3) Sr. No.	N22D158121	85012146
4) Phase	Three	

Sir,

With reference to your above application, permission is accorded under Section-9 of the Electricity Act, 2003 for installing and running a Generating Set having details furnished in your above cited application, subject to the following conditions:-

1. That the generator shall be utilized to generate power for bonafide use only and the Power so generated shall not be sold to anybody.
2. That the set shall be open for inspection to the Sub Divisional Engineer, Electricity Department of the area, before being commissioned and periodically thereafter.
3. That the operation of the generator shall not at any time be prejudicial to the interest of the Department.
4. Advance intimation regarding the commissioning of the generating set and other details should be sent to the Sub-divisional Engineer, Electricity Department of the area.
5. This permission is valid only for a period of six months from the date of issue within which the generator set shall be commissioned failing which it has to be renewed.



In addition to the above, the following formalities will have to be followed by the applicant:-

1. The wiring of the installation should be carried out through a licensed Electrical Contractor Holding a current valid license under the Rule-45 of the I.E Rules, 1956 and the Contractor's completion and Test Report should be sent to the Sub-Divisional Engineer, Electricity Department of the area.
2. Thirty days notice in writing of the intention to generate, transmit or use of energy be given to the Electrical Inspector and the District Magistrate, as provided under Rule-47-A of the Indian Electricity Rules, 1956 wherever applicable.
3. Use If the Generator is to be installed in a factory or the prime mover to be installed in a Boiler, it may be necessary to obtain the permission of the Inspector of Factory and Boilers under the provision of the Factory Act.
4. If the capacity of the D.G. set is more than 10 K.W. a suitable energy meter has to be installed to measure the energy generated. The monthly energy generated shall be intimated to the concerned sub-divisional officer.
5. Date of commissioning of the D.G. set shall be intimated to this office.
6. The D.G. set shall not be allowed to run in parallel with the Department's supply.
7. *Approval of the Electrical Inspector shall be obtained for the installation of the generator, and the certified copy of the approval shall be produced to the concerned Divisional Officer and his concurrence obtained before commissioning the set.*
8. The approval is granted to generate power for standby use only.
9. This issues with approval of Chief Electrical Engineer.

Yours faithfully,

Superintending Engineer ( Com)

Copy to: -

- 1) The Electrical Inspector, State Electrical Inspectorate, 5<sup>th</sup> floor, GIDC, Patto, Panaji - Goa.-- He is requested to intimate this office regarding date of approval for commissioning of the D.G. set.
- 2) The Executive Engineer, Elect. Division -Div XVII, Mapusa-Goa.
- 3) The Sub-divisional Engineer, Elect. Sub Div. -1, Pernem- Goa.