

To,

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

Date: 18th November 2021

Ref: GGIAL/MoEF&CC-EC/2021-2022/0835

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 2021 to September 2021.

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

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

Dear Sir,

With reference to the subject & reference mentioned above, we are herewith submitting the Half Yearly Environmental Clearance (EC) Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from April 2021 to September 2021. This project is under development phase.

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

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

Thanking you,

Yours Sincerely,
for GMR Goa International Airport Limited

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
5. The Director, CSIR-NEERI, Nehru Marg, Nagpur, Maharashtra - 440 020

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: April 2021 to September 2021)



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
Hon'ble Supreme Court of India's Order dated 16.01.2020
Addendum to EC Conditions dated 13.03.2020



GMR GOA International Airport Limited

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



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Point-wise Compliance

S. No.	Reference No.	Conditions	Compliance
Conditions of EC dated 28/10/2015			
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' (CTE) has been obtained from Goa State Pollution Control Board (GSPCB), vide Letter No. 12/2019-PCB/299315/R0002481 dated 29/01/2020 with validity till 28/01/2023. 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.	Noted. It will be addressed in due course in collaboration with Govt. of Goa (GoG).
3.	4 (A) (iii)	The approach and exit roads to the Airport shall be got approved from the NHA and should be according to IRC norms.	Noted. It will be addressed in due course in collaboration with 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. Included in the engineering design, vetted by IIT Mumbai. Drainage plan also approved by Water Resources Department (WRD), Government of Goa.



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S. No.	Reference No.	Conditions	Compliance
			Compliance is being ensured during construction phase. Drainage work is in progress.
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 Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
6.	4 (A) (vi)	Sewage and other liquid effluent generated from the airport including from the existing terminal should be treated according to the norms laid down by the State Pollution Control Board. The treated sewage shall be recycled for flushing/ gardening. Proper dual plumbing shall be provided.	STP outlet standards prescribed by GSPCB in the CTE are being considered for the STP design, will be addressed and complied with during operational phase of airport. The treated sewage shall be reused for flushing / gardening. Proper dual plumbing shall be provided. Currently, we are in the construction phase and hence infrastructure is being built.
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	Noted. Compliance shall be ensured. Project is in construction phase and necessary infrastructure to ensure compliance with the given conditions is being developed.





S. No.	Reference No.	Conditions	Compliance
		passengers and also at the cafeterias as to reduce generation of solid wastes including PET bottles.	
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	<p>Being Complied.</p> <p>As per the revised categorisation of DG sets by CPCB, the stand alone DG sets 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 used in the construction are provided with adequate stack height and acoustic enclosures.</p> <p>Compliance shall be ensured for all DG Sets during operational phase of airport as per CPCB guidelines</p>
9.	4 (A) (ix)	Parking provision shall be provided according to the National Building Code of India, 2005.	Noted. Parking provision has been considered in the airport plan. Compliance shall be ensured during operational phase.
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.	Noted. Provisions for water conservation fixtures are considered in the design. Compliance shall be ensured.





S. No.	Reference No.	Conditions	Compliance
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 WRD, Goa. (Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
12.	4 (A) (xii)	The land use around the Airport complex shall be regulated through a plan to control unauthorized development which may create problems in the operation of Airport.	Mopa Airport Development Authority (MADA) – Government of Goa, is the designated regulatory body to control the unauthorized development around the Airport complex. GGIAL has communicated this EC condition requirements 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 shall be ensured during operational phase of airport. Currently, the project is in the construction phase and infrastructure is being developed.
14.	4 (A) (xiv)	Rain water harvesting shall be provided to recharge the ground water.	Noted. Compliance shall be ensured. GGIA has developed Rain Water Harvesting (RWH) plan and same has



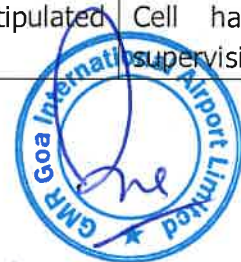
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S. No.	Reference No.	Conditions	Compliance
			been approved by WRD, Goa. RWH structures are being developed as a part of ongoing project.
15.	4 (A) (xv)	Energy conservation to the extent of at least 20% shall be incorporated including water conservation (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.	Noted. Compliance shall be ensured during operational phase. Energy and water conservation measures are considered in the design.
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.	Noted. Compliance shall be ensured by GoG.
17.	4 (A) (xvii)	All the recommendations of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.	Complied. Compliance to the mitigation measures in Matrix Format is attached as Annexure - 1 .
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	Noted. Compliance is being ensured.





S. No.	Reference No.	Conditions	Compliance
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 is being conducted by MoEF&CC approved and NABL accredited Environmental Laboratory. Noise level monitoring reports are enclosed as Annexure-2 .
20.	4 (A) (xx)	The location of monitoring stations and monitoring of noise level during day and night shall be in accordance with the CPCB guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 th June, 2008.	Noted. Compliance shall 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 in place and being followed to ensure compliance.
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 disposed off through SPCB authorized recyclers adopting Manifest system.
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 before starting the construction. 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	Complied. Environmental Management Cell has been set up under the supervision of a Senior Executive



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S. No.	Reference No.	Conditions	Compliance
		environmental safeguards under the supervision of a Senior Executive.	designated as VP & Head – EHS & Sustainability.
25.	4 (A) (xxv)	<p>Corporate Environment Responsibility:</p> <p>a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Complied. Environment Policy is in place.</p> <p>Complied.</p> <p>Complied.</p> <p>Complied.</p>
B.	GENERAL CONDITIONS:- EC dated 28/10/2015		
26.	4 (B) (i)	<p>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.</p> <p>The housing may be in the form of temporary structures to be removed after the completion of the project</p>	Being Complied. Labour colony has been established within project site with all necessary infrastructure and facilities.



Half Yearly EC Compliance Report (April 2021 to September 2021)



S. No.	Reference No.	Conditions	Compliance
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 at the project site.
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. Top soil excavated is being stored at designated locations within the site for future use.
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 will be reused 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. License from Chief Controller of Explosives has been obtained for temporary storage of Low Sulphur 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.	Being Complied. All construction vehicles carry Pollution Under Check (PUC) certificate. 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





S. No.	Reference No.	Conditions	Compliance
			for NH and SH roads by Central Govt. & State Govt.
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003.	Being Complied. Fly ash is being used in Ready Mixed Concrete (RMC), as per Mix Design criteria.
33.	4 (B) (viii)	Ready mixed concrete must be used in 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. Earth work is in progress.
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. Precast members are used. Admixtures are used in RMC.
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 shall be ensured. Requirement is considered in the Design.
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 shall be ensured. Requirement is considered in the Design.
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 shall be ensured. Requirement is considered in the Design.
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 shall be ensured. Requirement is considered in the Design.





S. No.	Reference No.	Conditions	Compliance
40.	4 (B) (xv)	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Noted. Compliance shall 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 shall 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 shall be ensured. Construction License has been obtained from MADA.
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 have been submitted. (Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
44.	4 (B) (xix)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Being Complied.
45.	4 (B) (xx)	Full support shall be extended to the officers of this Ministry/Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing	Noted. Compliance shall be ensured.





S. No.	Reference No.	Conditions	Compliance
		full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	
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.	Six Monthly EC compliance Reports are being submitted to RO-MOEF&CC. Environmental 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 2021 to September 2021 are enclosed as Annexure – 2.
47.	4 (B) (xxii)	Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing. ones, if necessary in the interest of environment and the same shall be complied with.	Noted.
48.	4 (B) (xxiii)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted.
49.	4 (B) (xxiv)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	Noted.
50.	4 (B) (xxv)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the	Complied. 1. Financial Closure for the project has been achieved on 7 th July 2017.





S. No.	Reference No.	Conditions	Compliance
		project by the concerned authorities and the date of start of land development work.	<p>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 27th July 2017.</p> <p>3. Land development work has already been started (Letter submitted to RO-MoEF&CC vide letter no. GGIAL/MoEF&CC/ 2018/0194 dated 26th February 2018).</p> <p>The above details have been further submitted to Regional Office, MoEF&CC and MoEF&CC, New Delhi vide our letter No. GGIAL/MoEF&CC-EC/2020-21/0519 dated 13th August 2020.</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 Industries centre and Collector's Office / Tehsildar's office for 30 days.	Complied.



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Half Yearly EC Compliance Report (April 2021 to September 2021)

S. No.	Reference No.	Conditions	Compliance
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. Year-wise environmental expenditures over last 3 financial years and during April 2021 to Sept 2021 period are enclosed as Annexure – 3 .
54.	5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	Noted. Relevant environmental acts, as applicable, 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.	<p>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 have been submitted</p> <p>(Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24th May 2021).</p> <p>In addition to the above, necessary approvals obtained recently are enclosed as Annexure-4 to this report.</p>





S. No.	Reference No.	Conditions	Compliance
56.	7	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry.	Complied.
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.
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.



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S. No.	Reference No.	Conditions	Compliance
60.	11	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Compliance being ensured.
Additional NGT Conditions vide NGT order dated 21/08/2018			
	A	Air Environment	
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Un-burnt and Hydro Carbons (HC), Lead (Pb), CO ₂ , SO ₂ , CO ₂ , SOOT and Oxides of Nitrogen (NO _x) 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.	<p>Being Complied. Currently the project is in the construction phase. Monitoring of Suspended Particulate Matter (SPM), PM₁₀, PM_{2.5}, SO₂, NO_x, CO is conducted by MOEF&CC approved and NABL accredited Environmental Laboratory. The AAQ Monitoring report is enclosed as Annexure-2.</p> <p>Total VOC Monitoring is being conducted within the airport premises and its monitoring reports are enclosed as Annexure-2.</p>





S. No.	Reference No.	Conditions	Compliance
			<p>VOC analyser will be installed in the open ambient air in the fuel handling area during operational phase.</p> <p>Real time online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been procured and received at the project site. It shall be installed at GSPCB approved location.</p>
62.	2	Although all parameters w.r.t ambient air parameters have been found to be within limits for all 6 (six) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient air in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of AAQ monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as Annexure - 2.
	B	Water Environment	
63.	1	Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.	<p>Noted. Compliance shall be ensured.</p> <p>The rain water harvesting plan has been revised with additional numbers of pits and also approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.</p> <p>(Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide</p>



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S. No.	Reference No.	Conditions	Compliance
			letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
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. Monitoring is being done once in every month.
	C	Noise Environment	
65.	1	It has been proposed that ambient noise levels shall be monitored around the premises of airport, near DG sets and at main entrance/boundary of airport once a week at 7 (seven) locations which we feel are inadequate. Besides these, continuous monitoring of occupational noise exposure limits in such industrial environments would be appropriate with audible or visual alarm output capability.	Noted. Compliance shall be ensured Project is in construction phase and Noise levels monitoring is being conducted by MoEF&CC approved Environmental Laboratory.
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.	Complied. Report of Noise levels monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as Annexure-2 .
	D	Land Environment	
68.	1	There is a potential for impact on soil quality due to project related spills and leaks of fuel and chemicals and uncontrolled disposal of wastes and waste water. Adequate care be taken to avoid spills and leaks of hazardous substances and all project	Being Complied.





S. No.	Reference No.	Conditions	Compliance
		related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	
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.	Being complied. Soil conservation and stabilization measures are practiced as per work requirements.
71.	4	Remediation, restoration and compensation needs to be integral part of policy so as to provide adequate relief for any environmental or project related disasters.	Complied. Framework for remediation, restoration and compensation for any unlikely event of environmental or project related disasters has been prepared.
	E	Biological Environment	
72.	1	Efforts be made to transplant the trees to other locations in the same vicinity by using appropriate mechanical devices which are available these days.	Complied. 500 nos. of trees have been translocated within the site premises.
73.	2	Efforts be made to plant indigenous species which are tall in size rather than small saplings.	Noted. Compliance shall be ensured.
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 have 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	Complied.



S. No.	Reference No.	Conditions	Compliance
		'Dipcadi concanense' in collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.	
	F	Socio-economic Environment	
75.	1	Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response to any disasters both man-made or natural.	Being Complied. 'Onsite Emergency and Disaster Management Plan' for the construction phase of the project is prepared and 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 implemented. Emergency response drills are being conducted at construction site.
Addendum to EC dated 23rd March 2020			
	I	Statutory compliance	
77.	(i)	The project proponent shall obtain certificate from Chief Wildlife Warden (CWLW) of State through State Government that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) and no activity prohibited in the Eco-sensitive zone will be taken up.	Complied. (Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).



Half Yearly EC Compliance Report (April 2021 to September 2021)



S. No.	Reference No.	Conditions	Compliance
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 Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
79.	(iii)	The project proponent shall obtain necessary permission from the competent authority for drawal of water from Tillari Irrigation Canal.	Complied. Permission has been obtained from WRD, GoG. (Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
	II	Air quality monitoring and preservation	
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the airport area covering upwind and downwind directions.	Being Complied, Currently the project is in the construction phase. Environmental Monitoring of Suspended Particulate Matter (SPM), PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and CO is being conducted by MoEF&CC approved and NABL accredited Environmental Laboratory, within and outside the airport area covering upwind and downwind directions. The AAQ Monitoring report is enclosed as Annexure - 2.



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S. No.	Reference No.	Conditions	Compliance
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.	Being Complied
82.	(iii)	Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet	Being Complied.
83.	(iv)	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	Being Complied.
84.	(v)	Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.	Being Complied.
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.
	III	Water quality monitoring and preservation	
86.	(i)	Appropriate drainage channels need to be designed to take care of the water flow into the nearest water courses/rivers, etc.	Complied. Requirements are considered in the design of storm water drainage system. Drainage plan has been revised and also approved by WRD, GoG. (Refer Annexure – 4 of earlier submitted 'Half Yearly EC Compliance Report for the period from Oct 2020 to March 2021' vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
87.	(ii)	It should be ensured that sustainable water flow in the various channels of watershed in the plateau is maintained.	Compliance shall be ensured. Requirements are considered in the drainage design, which is approved by WRD, GoG.



S. No.	Reference No.	Conditions	Compliance
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 shall be ensured. Requirements are considered in the design.
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. Requirements are considered in the design.
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 shall be ensured. Requirements are is considered in the design.
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 shall be ensured. Requirement is considered in the design.
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.
93.	(viii)	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Rain water harvesting structures shall conform to CGWA guidelines. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	Compliance shall be ensured. Requirements are considered in the design.
	IV	Noise monitoring and prevention	
94.	(i)	Notification G.S.R. 568(E) dated 18.06.2018 of MoEF&CC regarding Ambient Air Quality Standards with respect to Noise in Airport Noise Zone shall be complied with.	Noted. Compliance shall be ensured during operational phase.



S. No.	Reference No.	Conditions	Compliance
95.	(ii)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Being Complied. Noise levels monitoring is being conducted and monitoring report is enclosed in Annexure - 2 .
96.	(iii)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	Being Complied. DG sets used in the construction are installed with acoustic enclosures. Vehicles and equipment engaged in the project are regularly serviced. Regular workplace monitoring is carried out.
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.	Noted. Compliance shall be ensured. DG sets used in the construction are installed with acoustic enclosures. Necessary PPEs are provided to operating personnel.
98.	(v)	During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	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.	Being Complied.
	V	Energy Conservation/climate change measures	
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.	Noted. Compliance shall be ensured. Energy conservation measures and LEDs are considered in the project design.
101.	(ii)	Initiatives such as Green Infrastructure Development program, adoption of less emission intensive technologies, renewable	Noted. Compliance shall be ensured. The requirements of Green Infrastructure



S. No.	Reference No.	Conditions	Compliance
		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.	Development program, adoption of less emission intensive technologies, renewable energy program and electrical vehicles are considered in the design. Airport Carbon Accreditation programme shall be adopted during operational phase.
	VI	Waste Management	
102.	(i)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical).	Being Complied.
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 Ready Mixed Concrete (RMC), as per Mix Design criteria.
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.	Noted. Compliance shall be ensured during operational phase. Project is in construction phase and necessary infrastructure to ensure compliance with the given conditions is being developed.
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.





S. No.	Reference No.	Conditions	Compliance
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:	Noted. 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.	
	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	
	VII	Green Belt	
107.	(i)	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter-alia cover the entire periphery of the Air Port.	Noted. Compliance shall 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 shall 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 monocultural plantation should be avoided.	Noted. Compliance shall be ensured in consultation with Department of Forests, Goa.
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,	Compliance is being ensured in collaboration with GoG. GGIAL has





S. No.	Reference No.	Conditions	Compliance
		their survival rate is monitored and mortality is replenished. As major chunk of 2.5 lakh of saplings is proposed to be done by the village level Bio Diversity Committees, it is necessary to ensure that people are largely given native species and/or fruit bearing saplings so that they will be able to derive economic benefits from such fruit crops and also such trees will provide better biological environment to birds.	contributed INR 80 lakhs supporting the afforestation plan of more than 4.65 lakh of saplings distributed and planted so far through Goa State Biodiversity Board (GSBB). Joint site visit inspection of plantation areas was also done by GSBB and GGIAL in September 2021. Further, NEERI also visited the sample sites during Sept 2021 to Oct 2021.
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Being Complied. Top soil is being stored separately for future use in the plantation activities.
	VIII	Public hearing and Human health issues	
112.	(i)	Solution/management plan regarding redressal of all the concerns raised in the public hearing must be 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 Government of Goa (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.	Requirements are being considered in the Design.
114.	(iii)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being Complied. Emergency preparedness plan is in place and 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	Complied.



Half Yearly EC Compliance Report (April 2021 to September 2021)

S. No.	Reference No.	Conditions	Compliance
		as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Labour colony has been established within project site with all necessary infrastructure and facilities.
116.	(v)	Occupational health surveillance of the workers shall be done on a regular basis.	Being Complied.
		Conditions of Hon'ble Supreme Court of India (SCI) Order dated 16/01/2020	
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 Programme during operational phase is considered in the design and construction. The same 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 team reviewed the EC compliance on 25 th June 2021. Further, NEERI team also inspected the airport project site and reviewed the compliance during 28 th September 2021 to 2 nd October 2021.



ANNEXURE – 1
ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS
AS OF SEPTEMBER 2021

S. No.	Mitigation measures	Compliance status
Mitigation measures for Air Environment during Construction Phase		
01	Ensure preventive maintenance of vehicles and equipment.	Being Complied. Sample copy of Checklist for Maintenance is enclosed as Annexure-A .
02	Ensure vehicles with valid Pollution under Control certificates are used.	Being Complied. Sample copy of PUC certificate is enclosed as Annexure-B .
03	Implement dust control activities such as water sprinkling on unpaved sites.	Being Complied with. Sample photographs of implementation of Dust control measures are enclosed as Annexure-C .
04	Ensure vertical stacks with height sufficient for dispersion as per CPCB guideline for DG stacks.	DG sets stack height is as per the CPCB Guidelines. Photo showing DG with adequate stack height is enclosed in the Annexure-D .
Mitigation measures for Water Environment during Construction Phase		
05	Monitor water usage at construction camps to prevent wastage.	Being Complied.
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 225 KLD is in operation at the workmen colony. Another 50 KLD STP is also installed and in operation at another labour colony. Both STPs are within project site premises and designed to handle peak waste water load and being properly maintained.





S. No.	Mitigation measures	Compliance status
07	Ensure supply of temporary/portable toilets for construction staff.	Being Complied. Sample photo of portable toilet facility is enclosed as Annexure-E .
Mitigation measures for Land Environment during Construction Phase		
08	Avoiding rainy season for construction so as to avoid soil erosion.	Appropriate measures taken.
09	Restricting all construction activities inside project boundary.	Being followed.
10	Ensure top soil stock pile is not contaminated with any type of spills.	Being followed.
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.
Mitigation measures for Noise Environment during Construction Phase		
12	Ensure preventive maintenance of equipment and vehicles.	Being Complied with.
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	DG sets have acoustic enclosures.
14	Ensure vehicle movement is avoided at night, and close to sensitive receptors (such as schools, hospitals, place of worships).	Being Complied with.
Mitigation measures for Biological Environment during Construction Phase		
15	Keep a tally of trees cut.	Complied. Records have been maintained.
16	Avoid cutting of trees wherever possible.	Being Complied with.
17	Closing of trenches as soon as possible after pipeline laying, if any.	Being Complied with.
Mitigation measures for Socio-economic Environment during Construction Phase		
18	Prohibit use of firewood in project camps and making use of cooking gas is mandatory.	Being Complied.
19	Regulating speed limit of the vehicles	Being regulated.



Set

ANNEXURE – A

PREVENTATIVE MAINTENANCE OF VEHICLES

FIELD SERVICE REPORT

Work Order No. 31000013 Date: 21/07/2021

Machine Model: Volvo Machine SN: 252253 Engine SN: 12611692

Customer: Lakshmi Civils Pvt Ltd Contact Person: Mr. B. Krishna

Machine Location: 12-888 (2nd) Contact No: 985200542

Complaint: 1500 hours maintenance due
1500 hours maintenance of Volvo service schedule.

Correction: 1500 hours maintenance carried out as per Volvo service schedule. Start the machine and found working is satisfy.

Replaced Component Serial Number:

Description	Old Part SN	New Part SN

Parts Used:

Part Number	Description	Qty	Part Number	Description	Qty
	Engine oil				
	Engine oil filter				
	Fuel filter				
	Water separator				
	Water separator				

Lead Technicians: Anand Menon Assistant: _____

Slip	Dispatch	Arrival at site	Leave from site	Back to office	Total mileage	Job start	Job complete
Time	Time	Date	Time	Date	Time	Time	Time
1st	08:30 AM	08:45 AM	09:15 AM	09:30 AM	12000	09:30 AM	10:00 AM
2nd							
3rd							

Any Other Findings On Machine / Recommendations: _____
Customer Comments: _____

Customer: _____ Technician: _____ Supervisor: _____

FIELD SERVICE REPORT

Work Order No. 31000069 Date: 01/08/2021

Machine Model: Volvo Machine SN: 427009 Engine SN: 4055

Customer: Lakshmi Civils Pvt Ltd Contact Person: Mr. B. Krishna

Machine Location: 12-888 - Goa Contact No: 985200542

Complaint: Fuel gauge not working
Fuel level sensor is fail.

Correction: checked fuel tank link (20A) found OK. Side found resistance found 60 ohms ok. checked sensor resistor resistance found 7.2 to 110 ohms. resistor checked sensor resistor voltage 12-0 V. found ok.

Replaced Component Serial Number:

Description	Old Part SN	New Part SN

Parts Used:

Part Number	Description	Qty	Part Number	Description	Qty
	Fuel level sensor	1			

Lead Technicians: Anand Menon Assistant: _____

Slip	Dispatch	Arrival at site	Leave from site	Back to office	Total mileage	Job start	Job complete
Time	Time	Date	Time	Date	Time	Time	Time
1st	08:30 AM	08:45 AM	09:15 AM	09:30 AM	12000	09:30 AM	10:00 AM
2nd							
3rd							

Any Other Findings On Machine / Recommendations: _____
Customer Comments: _____

Customer: _____ Technician: _____ Supervisor: _____



ANNEXURE - B
PUC CERTIFICATE

GOVERNMENT OF GOA
DIRECTORATE OF TRANSPORT
Pollution Under Control Certificate

PASS

PUC LICENSE ID No PUC/04/2020
and UOV: 22/02/2022

Vehicle Type: MUV
Vehicle No.: MH16CC0008

TRANSPORT VEHICLE
DIESEL VEHICLE

CERTIFICATE SERIAL NO.: T00098645
IC No.: GAPUC20210109265
Calendar Reading: 06/05/2021 10:39 AM

Sr. No.	RPM	g Value	MSJ Value %
1.	747 - 2024	0.240	9.980
2.	751 - 2005	0.240	9.980
3.	751 - 1963	0.240	9.980
Mean	749 - 2001	0.240	9.980

MH16
CC0008

PUC Certificate Valid Till 05/05/2022

ENTERPRISES
DHARGAL BOH

Name and address of PUC Centre: SRA ENTERPRISES, SRA ENTERPRISES, 010 (L3) B, OSHELWAG DHARGAL PERREM G
Tel. No. _____ Fax No. _____ E-mail: sraenterprises@gmail.com Mobile: 816877788

All HMV:
Rs.250/- (PUC Fee) + Rs.15/- (SEL Service Fee) + Rs.268/-

In case of queries or Feedback please write to us on
Email: puc@transport.goa@gmail.com
GOA PUC CENTRE

COMPUTERISED POLLUTION UNDER CHECK CENTERS
(Rule 231(B)(8) of MV Rules 1989)

Centre Name: Green India Emission Testing Centre
Center Address: Opp. RTO Office, Sastapur, Benavakshyan Dist., Sida

Customer Name: _____
Customer Mobile: 9449094550
Pucc No.: D621KA187736
Vehicle No.: KA580978
Year of Regn.: 27-10-2008
Type of Vehicle: TIPPER

Make: Ashok Leyland Ltd
Model: 2214 TAURUS
Test Date: 15-09-2021
Time: 16:41
Valid Until: 14-09-2022

Photo of Vehicle

Test Data

Pumping Cycle				
Avg	RPM Min	RPM Max	Temp	
0796		3060		90

Srno	RPM Min	RPM Max	Km	CO2(g/km)	Temp
1	0796	3030	0.41	16.2	0090
2	0796	3100	0.42	16.6	0090
3	0796	3050	0.42	16.6	0090
4	0796	3065	0.42	16.6	0090
Mean			0.42	16.6	

Certificate price:

Pen Limit for Diesel vehicle	K(Light Absorption Co-efficient)	Harridge Units %
Free Acceleration	2.45	65

Test Date: 15-09-2021
Time: 16:41
Valid Until: 14-09-2022

Head of Testing Station: _____
Testing Station Code: D621
Authorized Signatory: _____

ONLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.
* Penalty for Air Pollution* Not exceeding for Rs. 1000 for the 1st offence and Not exceeding for Rs. 2000 for the 2nd & subsequent offence.

GREEN INDIA
EMISSION TESTING CENTER, 9845050910



ANNEXURE – C

DUST CONTROL MEASURES IMPLEMENTED AT SITE



WATER SPRINKLING ON UNPAVED HAUL ROADS



FOG CANNONS DEPLOYED AT EARTH WORK AREAS



Signature

ANNEXURE - D

DIESEL GENERATORS WITH ADEQUATE STACK HEIGHT



Live

ANNEXURE – E

PORTABLE TOILET FACILITIES



Goa



Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101.
Goa State, India. ☎ : (0832) 2411322 / 23 • E-mail : starlabgoa@rediffmail.com

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SAVE LIFE

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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa(Goa State)		
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°44'50.3"
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°51'37.8"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0009	56.21	13.03	<3.00	<9.00	0.07	77.94
2	05/04/2021	SEE/AR/04/2021/0385	29.88	13.89	14.14	<9.00	0.05	105.93
3	08/04/2021	SEE/AR/04/2021/0527	51.81	11.19	15.13	20.84	0.09	85.48
4	12/04/2021	SEE/AR/04/2021/0662	78.52	28.26	16.62	27.97	0.06	160.43
5	15/04/2021	SEE/AR/04/2021/0725	56.92	26.95	10.94	12.37	0.05	107.32
6.	19/04/2021	SEE/AR/04/2021/0890	57.36	15.30	6.84	15.59	0.08	72.92
7.	22/04/2021	SEE/AR/04/2021/0978	53.13	25.32	<3.00	<9.00	0.05	81.71
8	26/04/2021	SEE/AR/04/2021/1196	79.56	28.28	6.40	18.03	0.14	111.22
9	29/04.2021	SEE/AR/04/2021/1291	87.50	45.23	5.21	16.32	0.11	153.76
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

Checked by
Arun



Authorized Signatory
K. Hopdekar

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.
☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164

E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN No. U45209MH1998PTC-116379

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.1899-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/541	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101, Goa State, India. ☎ : (0832) 2411322 / 23 • E-mail : starlabgoa@rediffmail.com

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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan(Goa State)				
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	74	Latitude	N 15°44'06.1"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	210	Longitude	E 73°51'31.5"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0008	49.50	22.32	9.90	<9.00	0.08	93.40
2	05/04/2021	SEE/AR/04/2021/0384	46.29	18.20	32.09	<9.00	0.07	80.79
3	08/04/2021	SEE/AR/04/2021/0526	38.73	19.66	19.18	12.73	0.05	103.22
4	12/04/2021	SEE/AR/04/2021/0661	85.00	42.98	5.75	17.91	0.09	292.71
5	15/04/2021	SEE/AR/04/2021/0724	87.57	50.53	9.01	9.48	0.10	193.97
6.	19/04/2021	SEE/AR/04/2021/0889	43.83	11.29	5.87	15.89	0.06	56.06
7.	22/04/2021	SEE/AR/04/2021/0977	47.37	24.21	5.60	10.62	0.08	122.23
8	26/04/2021	SEE/AR/04/2021/1195	74.91	39.03	5.56	17.88	0.11	96.71
9	29/04.2021	SEE/AR/04/2021/1290	81.22	35.76	6.69	15.66	014	123.93
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1904-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/548	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 301-DTE-2010)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	ECL/SEEPL/2020-21/FLOW/537	24/07/2020	24/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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Lab. AMBIENT AIR QUALITY MONITORING REPORT¹⁸

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)			
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°46'40.0"	
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°50'57.2"	
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)			

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0007	43.79	24.98	<3.00	<9.00	0.05	88.09
2	05/04/2021	SEE/AR/04/2021/0383	28.96	20.70	16.60	<9.00	0.08	112.27
3	08/04/2021	SEE/AR/04/2021/0525	53.12	15.43	10.93	9.04	0.06	131.16
4	12/04/2021	SEE/AR/04/2021/0660	42.24	17.49	6.42	13.98	0.07	122.34
5	15/04/2021	SEE/AR/04/2021/0723	51.22	21.75	8.41	<9.00	0.09	66.12
6.	19/04/2021	SEE/AR/04/2021/0888	45.17	28.15	4.40	10.49	0.05	76.97
7.	22/04/2021	SEE/AR/04/2021/0976	56.44	18.64	<3.00	<9.00	0.07	75.08
8	26/04/2021	SEE/AR/04/2021/1194	61.00	20.46	<3.00	11.96	0.05	113.46
9	29/04.2021	SEE/AR/04/2021/1289	71.21	25.66	3.76	12.40	0.07	120.04
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/S83	29/07/2020	29/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)		
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°45'10.7"
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°53'47.0"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0006	39.26	17.03	5.38	<9.00	0.08	66.53
2	05/04/2021	SEE/AR/04/2021/0382	34.64	13.91	3.64	<9.00	0.05	64.68
3	08/04/2021	SEE/AR/04/2021/0524	65.40	20.60	<3.00	<9.00	0.06	105.10
4	12/04/2021	SEE/AR/04/2021/0659	86.23	48.27	4.39	13.54	0.03	130.28
5	15/04/2021	SEE/AR/04/2021/0722	43.32	36.09	<3.00	<9.00	0.07	79.56
6	19/04/2021	SEE/AR/04/2021/0887	49.21	11.39	<3.00	10.93	0.05	60.75
7	22/04/2021	SEE/AR/04/2021/0975	30.93	17.53	<3.00	<9.00	0.06	38.46
8	26/04/2021	SEE/AR/04/2021/1193	45.25	15.55	5.06	12.34	0.08	84.10
9	29/04/2021	SEE/AR/04/2021/1288	62.72	22.52	<3.00	15.67	0.05	111.21
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/550	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 99-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/629	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna(Maharashtra State)		
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°47'11.3"
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°53'11.6"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0005	55.22	23.12	<3.00	<9.00	0.05	94.08
2	05/04/2021	SEE/AR/04/2021/0381	29.05	17.76	3.04	<9.00	0.07	58.68
3	08/04/2021	SEE/AR/04/2021/0523	33.27	19.51	4.76	<9.00	0.06	65.36
4	12/04/2021	SEE/AR/04/2021/0658	39.45	15.66	<3.00	10.96	0.05	56.99
5	15/04/2021	SEE/AR/04/2021/0721	36.54	26.38	<3.00	<9.00	0.08	65.08
6	19/04/2021	SEE/AR/04/2021/0886	31.67	10.27	<3.00	10.66	0.06	46.16
7	22/04/2021	SEE/AR/04/2021/0974	41.63	14.47	<3.00	<9.00	0.05	93.15
8	26/04/2021	SEE/AR/04/2021/1192	46.00	22.03	5.60	13.24	0.11	73.42
9	29/04.2021	SEE/AR/04/2021/1287	52.88	18.56	<3.00	<9.00	0.06	83.53
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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. 2228-DTK-2011)	EI/FF/620	19/02/2021	18/02/2022

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	ECL/SEEPL/2020-21/FLOW/536	23/07/2020	23/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	KhajneAmerePorscodem(Goa State)		
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°43'38.0"
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°49'21.4"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0004	36.27	20.56	<3.00	<9.00	0.04	109.19
2	05/04/2021	SEE/AR/04/2021/0380	39.98	12.43	9.03	9.62	0.08	72.77
3	08/04/2021	SEE/AR/04/2021/0522	42.70	18.61	<3.00	9.60	0.03	85.43
4	12/04/2021	SEE/AR/04/2021/0657	49.12	12.40	5.59	16.18	0.06	132.23
5	15/04/2021	SEE/AR/04/2021/0720	66.22	49.40	5.83	<9.00	0.05	119.32
6.	19/04/2021	SEE/AR/04/2021/0885	32.48	14.64	<3.00	13.92	0.03	49.49
7.	22/04/2021	SEE/AR/04/2021/0973	34.82	10.98	<3.00	<9.00	0.07	117.21
8	26/04/2021	SEE/AR/04/2021/1191	37.17	16.05	3.23	13.32	0.07	81.22
9	29/04.2021	SEE/AR/04/2021/1286	47.16	24.21	3.55	12.19	0.10	80.34
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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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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)	ECL/SEEPL/2020-21/FLOW/584	29/07/2020	29/07/2021

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	ECL/SEEPL/2020-21/FLOW/S88	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	PurvaCasarvarnem (Goa State)				
Average Ambient Temperature (°C)		Average Humidity (%)		Latitude	N 15°42'41.9"
Average Wind Speed (km/hr)		Average Wind direction (Deg)		Longitude	E 73°52'16.6"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0003	45.91	17.18	<3.00	<9.00	0.07	117.35
2	05/04/2021	SEE/AR/04/2021/0379	40.26	13.07	4.31	<9.00	0.06	62.73
3	08/04/2021	SEE/AR/04/2021/0521	35.28	13.33	<3.00	<9.00	0.05	71.41
4	12/04/2021	SEE/AR/04/2021/0656	62.22	24.14	6.03	15.56	0.08	107.17
5	15/04/2021	SEE/AR/04/2021/0719	39.48	18.54	3.93	<9.00	0.03	70.43
6	19/04/2021	SEE/AR/04/2021/0884	48.69	19.68	3.37	9.57	0.06	91.57
7	22/04/2021	SEE/AR/04/2021/0972	36.73	11.03	<3.00	<9.00	0.05	64.79
8	26/04/2021	SEE/AR/04/2021/1190	42.95	20.66	4.15	17.27	0.07	74.13
9	29/04.2021	SEE/AR/04/2021/1285	51.44	19.32	<3.00	15.21	0.09	72.11
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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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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)	ECL/SEEPL/2020-21/FLOW/1845	14/10/2020	14/10/2021

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	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State)		
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N 15°42'37.3"
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°51'14.22"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)		

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0002	47.43	12.60	<3.00	<9.00	0.06	63.09
2	05/04/2021	SEE/AR/04/2021/0378	35.21	9.84	7.03	<9.00	0.03	55.05
3	08/04/2021	SEE/AR/04/2021/0520	37.41	10.32	<3.00	<9.00	0.05	68.73
4	12/04/2021	SEE/AR/04/2021/0655	57.32	21.48	<3.00	16.21	0.06	112.50
5	15/04/2021	SEE/AR/04/2021/0718	64.46	32.54	3.85	17.14	0.07	104.57
6	19/04/2021	SEE/AR/04/2021/0883	56.00	23.91	3.31	14.19	0.08	94.24
7	22/04/2021	SEE/AR/04/2021/0971	60.97	31.89	<3.00	<9.00	0.03	122.10
8	26/04/2021	SEE/AR/04/2021/1189	52.97	27.33	5.25	17.20	0.05	94.61
9	29/04.2021	SEE/AR/04/2021/1284	42.31	18.76	3.22	9.54	0.10	75.91
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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 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.1901-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/S40	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 109-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/631	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/05/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)			
Average Ambient Temperature (°C)	Average Humidity (%)	Latitude	N15°45'01.3"	
Average Wind Speed (km/hr)	Average Wind direction (Deg)	Longitude	E 73°48'00.2"	
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)			

Sr. No	Date of Sampling	Report No.	PARAMETERS					
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	01/04/2021	SEE/AR/04/2021/0001	35.96	13.78	<3.00	23.93	0.07	68.50
2	05/04/2021	SEE/AR/04/2021/0377	43.06	14.52	13.77	<9.00	0.05	75.57
3	08/04/2021	SEE/AR/04/2021/0519	32.70	15.32	7.47	10.10	0.03	69.79
4	12/04/2021	SEE/AR/04/2021/0654	48.56	11.23	5.26	16.17	0.05	95.98
5	15/04/2021	SEE/AR/04/2021/0717	27.36	16.88	7.00	<9.00	0.06	103.59
6.	19/04/2021	SEE/AR/04/2021/0882	35.87	15.73	6.52	16.34	0.07	46.44
7.	22/04/2021	SEE/AR/04/2021/0970	50.66	12.41	<3.00	<9.00	0.05	106.39
8	26/04/2021	SEE/AR/04/2021/1188	41.76	32.36	3.94	12.90	0.09	80.90
9	29/04.2021	SEE/AR/04/2021/1283	38.67	22.11	<3.00	11.23	0.08	63.99
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1456-DTD-2009)	ECL/SEEPL/2020-21/FLOW/547	25/07/2020	25/07/2021

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	ECL/SEEPL/2020-21/FLOW/537	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/04/2021/0666-0667, 0879, 0726-0727, 0881, 0878, 1294-1295,0880,1315-1316	Report Date	04/05/2021
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

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.	13/04/2021	SEE/AR/04/2021/0666	G-N1	I	Mopa	32.1	84.8	60.1	30.0	66.1	54.1
2.	13/04/2021	SEE/AR/04/2021/0667	G-N2	I	Shemecheadvan	30.6	80.9	55.9	30.0	60.1	49.6
3.	17/04/2021	SEE/AR/04/2021/0879	G-N3	C	Nagzar	32.5	75.8	60.9	30.1	53.6	38.5
4.	15/04/2021	SEE/AR/04/2021/0726	G-N4	R	Purva Casarvamem	30.0	65.4	49.6	30.5	51.6	40.0
5.	15/04/2021	SEE/AR/04/2021/0727	G-N5	R	Chandel	32.1	63.4	48.4	30.3	51.3	37.2
6.	18/04/2021	SEE/AR/04/2021/0881	G-N6	R	Khajne Amere Porscodem	30.1	68.4	47.7	32.8	52.2	38.7
7.	17/04/2021	SEE/AR/04/2021/0878	G-N7	R	Warkhand	30.0	71.3	48.5	30.0	61.1	39.6
8.	29/04/2021	SEE/AR/04/2021/1294	G-N8	C	Rajvil Wada Torxem	30.1	86.0	60.4	30.1	63.7	48.5
9.	29/04/2021	SEE/AR/04/2021/1295	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.0	81.1	60.2	31.1	59.3	49.3
10.	18/04/2021	SEE/AR/04/2021/0880	M-N1	R	Satarda	31.4	74.5	49.2	30.0	63.6	40.1
11.	30/04/2021	SEE/AR/04/2021/1315	M-N2	R	Dingna	30.1	73.3	48.1	30.2	45.6	39.5
12.	30/04/2021	SEE/AR/04/2021/1316	M-N3	R	Netarde	31.3	61.4	47.7	30.1	60.4	40.7

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 9.00pm and night time is reckoned in between 9.00pm 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 2015.

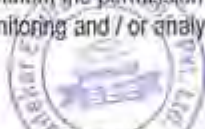
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Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/199	17/07/2020	16/07/2021

Noise Level Meter No.2 (A011A-1408)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/198	17/07/2020	16/07/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/193	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	Borewell 1			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.86	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.85	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	70.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	176.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	19.52	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻²	20.86	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	108.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34); 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/04/2021/193	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	6.40	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.02	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	20.84	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	13.65	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/04/2021/193	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	2021/02/001	01/02/2021	01/02/2022
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	O/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/191	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	Borewell 2			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.44	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.60	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	78.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	189.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	16.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	96.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34); 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/04/2021/191	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	1.17	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	17.63	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	12.68	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	0.16	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/04/2021/191	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	2021/02/001	01/02/2021	01/02/2022
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/212	Report Date	23/04/2021	
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 18/03/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	Borewell No. 3			
Sample details	Ground Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.64	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.66	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	90.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	164.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	20.04	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻²	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	72.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34); 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/04/2021/212	Report Date	15/04/2021
Order / Reference	As per dated 18/03/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	1.56	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	20.58	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	10.10	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/04/2021/212	Report Date	15/04/2021
Order / Reference	As per dated 18/03/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	2021/02/001	01/02/2021	01/02/2022
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/187	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	LSC Colony			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/188	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/189	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	R R Canteen			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/192	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	PTB			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/194	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	CH2700			
Sample details	Drinking Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/209	Report Date	20/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/OSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/03/2021	
Analysis Started On	15/04/2021	Analysis Completed On	20/04/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.60	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1480.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	500.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	279.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	12.80	mg/lit	APHA(23 rd Edition) 5520-O &G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/210	Report Date	20/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.9	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	20/04/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.96	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	136.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	20.64	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	42.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	4.80	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G

* Limits: General standards for Discharge of Environmental Pollutants into Inland Surface water, as per The Environment (Protection) Rules, 1986.

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/04/2021/190	Report Date	23/04/2021	
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 15/04/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	67
Sampling point	Tilari Canal			
Sample details	Surface Water	Date of collection	15/04/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/04/2021	
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.86	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.82	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	44.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	147.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	17.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	80.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/04/2021/190	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	20.84	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	6.81	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/04/2021/190	Report Date	23/04/2021
Order / Reference	As per dated 15/04/2021	Sample Received On	15/04/2021
Analysis Started On	15/04/2021	Analysis Completed On	23/04/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	2021/02/001	01/02/2021	01/02/2022
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021

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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa (Goa State) (G-AAQ1)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	69	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	198	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0068	66.21	21.06	<3.00	<9.00	0.08	92.27
2	06/05/2021	SEE/AR/05/2021/0186	72.65	30.11	4.20	12.11	0.10	109.54
3	10/05/2021	SEE/AR/05/2021/0230	56.77	26.47	5.37	10.88	0.07	85.68
4	13/05/2021	SEE/AR/05/2021/0322	67.28	27.18	<3.00	<9.00	0.05	96.11
5	17/05/2021	SEE/AR/05/2021/0377	39.54	22.18	<3.00	<9.00	0.03	62.89
6	20/05/2021	SEE/AR/05/2021/0439	28.16	8.68	<3.00	<9.00	0.06	37.35
7	24/05/2021	SEE/AR/05/2021/0493	31.59	8.77	<3.00	<9.00	0.09	42.83
8	27/05/2021	SEE/AR/05/2021/0602	25.63	12.22	<3.00	9.46	0.05	48.37
9	31/05/2021	SEE/AR/05/2021/0671	36.12	10.99	<3.00	<9.00	0.06	47.62
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1899-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/541	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemeheadvan (Goa State) (G-AAQ2)				
Average Ambient Temperature (°C)	31.3	Average Humidity (%)	70	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	2.0	Average Wind direction (Deg)	208	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0067	72.77	27.31	6.14	15.22	0.05	112.44
2	06/05/2021	SEE/AR/05/2021/0185	64.21	35.32	5.80	14.36	0.11	100.89
3	10/05/2021	SEE/AR/05/2021/0229	78.11	31.65	3.39	13.26	0.06	111.65
4	13/05/2021	SEE/AR/05/2021/0321	69.38	22.48	5.60	11.45	0.07	92.43
5	17/05/2021	SEE/AR/05/2021/0376	49.28	17.87	3.28	<9.00	0.07	67.24
6	20/05/2021	SEE/AR/05/2021/0438	44.57	20.33	<3.00	9.12	0.04	65.76
7	24/05/2021	SEE/AR/05/2021/0492	35.19	9.40	4.26	<9.00	0.05	47.01
8	27/05/2021	SEE/AR/05/2021/0601	29.42	26.89	<3.00	<9.00	0.07	58.98
9	31/05/2021	SEE/AR/05/2021/0670	50.81	20.47	<3.00	<9.00	0.08	71.80
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1904-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/548	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 301-DTE-2010)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	ECL/SEEPL/2020-21/FLOW/537	24/07/2020	24/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar (Goa State) (G-AAQ3)				
Average Ambient Temperature (°C)	30.9	Average Humidity (%)	68	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	2.3	Average Wind direction (Deg)	211	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0061	36.87	11.44	<3.00	<9.00	0.07	50.67
2	06/05/2021	SEE/AR/05/2021/0179	38.42	19.35	<3.00	<9.00	0.05	64.31
3	10/05/2021	SEE/AR/05/2021/0223	41.76	20.88	4.67	9.57	0.10	64.20
4	13/05/2021	SEE/AR/05/2021/0315	49.33	21.54	6.14	<9.00	0.08	77.12
5	17/05/2021	SEE/AR/05/2021/0370	33.21	14.47	<3.00	<9.00	0.03	39.59
6	20/05/2021	SEE/AR/05/2021/0432	35.28	8.22	<3.00	<9.00	0.04	44.27
7	24/05/2021	SEE/AR/05/2021/0486	38.60	8.68	3.26	<9.00	0.05	53.73
8	27/05/2021	SEE/AR/05/2021/0595	43.81	29.82	<3.00	<9.00	0.03	49.82
9	31/05/2021	SEE/AR/05/2021/0664	36.16	6.74	4.22	<9.00	0.05	43.55
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1901-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/540	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 109-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/631	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State) (G-AAQ4)				
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	74	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	203	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0062	50.64	22.33	<3.00	<9.00	0.05	79.28
2	06/05/2021	SEE/AR/05/2021/0180	42.63	18.41	3.12	<9.00	0.07	63.68
3	10/05/2021	SEE/AR/05/2021/0224	59.22	22.66	4.37	9.34	0.06	86.40
4	13/05/2021	SEE/AR/05/2021/0316	39.66	15.27	5.13	10.17	0.08	56.67
5	17/05/2021	SEE/AR/05/2021/0371	28.12	8.83	<3.00	<9.00	0.05	37.28
6	20/05/2021	SEE/AR/05/2021/0433	31.76	12.29	<3.00	<9.00	0.03	43.67
7	24/05/2021	SEE/AR/05/2021/0487	32.53	14.27	<3.00	<9.00	0.05	48.16
8	27/05/2021	SEE/AR/05/2021/0596	15.87	7.46	<3.00	<9.00	0.07	32.23
9	31/05/2021	SEE/AR/05/2021/0665	20.48	4.52	<3.00	<9.00	0.08	26.42
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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)

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Note : Test results related only to the sample tested.

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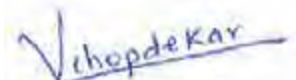
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Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 2892-DTJ-2020)	ECL/SEEPL/2020-21/FLOW/1845	14/10/2020	14/10/2021

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	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem (Goa State) (G-AAQ5)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	71	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	198	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0063	40.23	10.36	<3.00	<9.00	0.05	54.70
2	06/05/2021	SEE/AR/05/2021/0181	32.56	15.80	3.06	<9.00	0.03	50.05
3	10/05/2021	SEE/AR/05/2021/0225	30.43	21.65	11.97	10.54	0.07	55.73
4	13/05/2021	SEE/AR/05/2021/0317	44.22	18.69	17.55	11.80	0.05	70.79
5	17/05/2021	SEE/AR/05/2021/0372	25.44	10.37	<3.00	<9.00	0.03	35.97
6	20/05/2021	SEE/AR/05/2021/0434	29.19	8.74	<3.00	<9.00	0.04	36.82
7	24/05/2021	SEE/AR/05/2021/0488	31.55	18.96	<3.00	<9.00	0.03	54.20
8	27/05/2021	SEE/AR/05/2021/0597	22.45	10.23	5.43	<9.00	0.05	36.36
9	31/05/2021	SEE/AR/05/2021/0666	28.69	8.79	3.94	<9.00	0.06	37.95
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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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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)	ECL/SEEPL/2020-21/FLOW/584	29/07/2020	29/07/2021

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	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State) (G-AAQ6)				
Average Ambient Temperature (°C)	30.8	Average Humidity (%)	75	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	243	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0066	40.42	14.66	<3.00	<9.00	0.06	61.29
2	06/05/2021	SEE/AR/05/2021/0184	50.65	22.55	4.67	9.84	0.08	78.40
3	10/05/2021	SEE/AR/05/2021/0228	57.69	20.62	5.83	<9.00	0.05	79.38
4	13/05/2021	SEE/AR/05/2021/0320	41.40	16.48	4.33	<9.00	0.10	58.86
5	17/05/2021	SEE/AR/05/2021/0375	39.27	19.29	3.87	<9.00	0.04	61.23
6	20/05/2021	SEE/AR/05/2021/0437	36.48	11.33	<3.00	<9.00	0.03	48.37
7	24/05/2021	SEE/AR/05/2021/0491	33.60	13.22	<3.00	<9.00	0.06	46.43
8	27/05/2021	SEE/AR/05/2021/0600	30.11	8.57	<3.00	<9.00	0.05	39.65
9	31/05/2021	SEE/AR/05/2021/0669	45.68	16.48	<3.00	<9.00	0.07	62.84
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/583	29/07/2020	29/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda (Maharashtra State) (M-AAQ1)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	69	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	2.0	Average Wind direction (Deg)	189	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0060	48.76	20.41	<3.00	13.53	0.09	75.72
2	06/05/2021	SEE/AR/05/2021/0178	54.15	18.64	4.65	<9.00	0.05	76.26
3	10/05/2021	SEE/AR/05/2021/0222	40.66	21.67	3.76	9.36	0.08	89.27
4	13/05/2021	SEE/AR/05/2021/0314	54.35	15.76	4.22	10.75	0.03	68.35
5	17/05/2021	SEE/AR/05/2021/0369	39.46	10.73	<3.00	<9.00	0.06	51.47
6	20/05/2021	SEE/AR/05/2021/0431	31.38	7.89	<3.00	<9.00	0.05	45.22
7	24/05/2021	SEE/AR/05/2021/0485	29.15	11.23	3.41	<9.00	0.03	51.25
8	27/05/2021	SEE/AR/05/2021/0594	20.54	4.54	<3.00	<9.00	0.06	37.24
9	31/05/2021	SEE/AR/05/2021/0663	26.41	5.80	3.75	<9.00	0.03	33.21
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³
Method			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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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.1456-DTD-2009)	ECL/SEEPL/2020-21/FLOW/547	25/07/2020	25/07/2021

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	ECL/SEEPL/2020-21/FLOW/587	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State) (M-AAQ2)				
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	72	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	188	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0064	55.22	23.12	<3.00	<9.00	0.05	94.08
2	06/05/2021	SEE/AR/05/2021/0182	62.11	18.21	<3.00	<9.00	0.07	85.42
3	10/05/2021	SEE/AR/05/2021/0226	40.27	21.56	4.98	10.43	0.06	66.35
4	13/05/2021	SEE/AR/05/2021/0318	50.18	19.11	5.21	9.56	0.10	71.87
5	17/05/2021	SEE/AR/05/2021/0373	40.21	12.79	<3.00	<9.00	0.03	53.18
6	20/05/2021	SEE/AR/05/2021/0435	32.72	10.88	<3.00	<9.00	0.03	43.38
7	24/05/2021	SEE/AR/05/2021/0489	28.37	15.35	<3.00	<9.00	0.06	51.80
8	27/05/2021	SEE/AR/05/2021/0598	20.78	7.24	<3.00	<9.00	0.07	31.40
9	31/05/2021	SEE/AR/05/2021/0667	11.62	6.44	<3.00	<9.00	0.05	18.57
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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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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. 2228-DTK-2011)	EI/FF/620	19/02/2021	18/02/2022

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	ECL/SEEPL/2020-21/FLOW/536	23/07/2020	23/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde (Maharashtra State) (M-AAQ3)				
Average Ambient Temperature (°C)	31.6	Average Humidity (%)	70	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	198	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1	03/05/2021	SEE/AR/05/2021/0065	36.88	21.03	<3.00	<9.00	0.06	57.91
2	06/05/2021	SEE/AR/05/2021/0183	41.32	16.20	<3.00	<9.00	0.05	71.52
3	10/05/2021	SEE/AR/05/2021/0227	38.46	18.44	4.10	10.46	0.03	57.65
4	13/05/2021	SEE/AR/05/2021/0319	47.17	22.87	5.43	11.30	0.08	72.60
5	17/05/2021	SEE/AR/05/2021/0374	30.19	10.86	<3.00	<9.00	0.03	41.27
6	20/05/2021	SEE/AR/05/2021/0436	24.46	9.49	<3.00	<9.00	0.02	31.55
7	24/05/2021	SEE/AR/05/2021/0490	41.38	10.38	<3.00	<9.00	0.06	47.54
8	27/05/2021	SEE/AR/05/2021/0599	25.10	14.32	<3.00	<9.00	0.03	32.45
9	31/05/2021	SEE/AR/05/2021/0668	35.65	18.74	<3.00	<9.00	0.07	54.68
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/550	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 99-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/629	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/05/2021/0494-0495, 0544-0545, 0581-0582, 0603, 0623, 0641, 0604, 0622, 0640	Report Date	03/06/2021
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

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.	24/05/2021	SEE/AR/05/2021/0494	G-N1	I	Mopa	30.5	75.9	59.4	32.8	63.3	43.2
2.	24/05/2021	SEE/AR/05/2021/0495	G-N2	I	Shemecheadvan	30.0	81.1	59.0	30.0	61.8	53.5
3.	25/05/2021	SEE/AR/05/2021/0544	G-N3	C	Nagzar	35.0	72.5	54.5	30.0	54.1	40.7
4.	25/05/2021	SEE/AR/05/2021/0545	G-N4	R	Purva Casarvarnem	30.0	65.8	49.5	30.1	49.2	38.5
5.	26/05/2021	SEE/AR/05/2021/0581	G-N5	R	Chandel	35.8	70.1	47.6	30.0	55.2	37.6
6.	26/05/2021	SEE/AR/05/2021/0582	G-N6	R	Khajne Amere Porscodem	30.0	66.6	48.9	32.2	51.6	39.4
7.	27/05/2021	SEE/AR/05/2021/0603	G-N7	R	Warkhand	30.0	64.3	49.4	30.5	45.6	40.6
8.	28/05/2021	SEE/AR/05/2021/0623	G-N8	C	Rajvil Wada Torxem	32.6	64.3	60.1	31.6	55.9	43.1
9.	29/05/2021	SEE/AR/05/2021/0641	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.4	81.1	59.7	33.3	45.6	44.4
10.	27/05/2021	SEE/AR/05/2021/0604	M-N1	R	Satarda	30.0	59.9	46.8	30.1	53.6	38.5
11.	28/05/2021	SEE/AR/05/2021/0622	M-N2	R	Dingna	30.1	71.3	44.2	30.2	44.8	40.9
12.	29/05/2021	SEE/AR/05/2021/0640	M-N3	R	Netarde	30.0	69.4	48.9	30.0	62.3	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 9.00pm and night time is reckoned in between 9.00pm 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 2015.

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Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/199	17/07/2020	16/07/2021

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/198	17/07/2020	16/07/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/201	Report Date	03/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.54	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.40	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	84.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	162.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	18.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	8.96	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	90.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/05/2021/201	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 – C

Metal Analysis

20.	Aluminium as Al	0.02	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	13.62	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	13.60	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/05/2021/201	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/202	Report Date	03/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling point	Borewell 2			
Sample details	Ground Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 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); 1983 (RA 2012)
2.	Turbidity	0.69	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	68.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	142.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	13.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	80.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/05/2021/202	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 – C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	16.03	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	9.74	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	0.12	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/05/2021/202	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/203	Report Date	03/06/2021
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 24/05/2021	Environmental Condition of Lab	Temp ° C
			Humidity %
			28
			68
Sampling point	Borewell No. 3		
Sample details	Ground Water	Date of collection	24/05/2021
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
Sample Container	Glass bottle	Sample Quantity	1000 ml

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.61	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.59	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	60.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	151.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	15.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	8.31	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	64.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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

Report No.	SEE/05/2021/203	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	2.65	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 – C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	10.40	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	9.27	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/05/2021/203	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/199	Report Date	29/05/2021	
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 24/05/2021	Environmental Condition of Lab	Temp °C 28	Humidity % 68
Sampling point	PTB Tank			
Sample details	Drinking Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	29/05/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/05/2021/200	Report Date	29/05/2021	
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 24/05/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling point	RR Canteen			
Sample details	Drinking Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	29/05/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/05/2021/192	Report Date	01/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	01/06/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	864.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	322.19	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	270.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	11.60	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/05/2021/193	Report Date	01/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	01/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	7.24	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	168.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	23.32	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	87.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G

* Limits: General standards for Discharge of Environmental Pollutants into Inland Surface water, as per The Environment (Protection) Rules, 1986.

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/194	Report Date	01/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Inlet Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	01/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.66	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	760.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	280.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	313.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	24.00	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021

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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/195	Report Date	01/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Outlet water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	01/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

Chemical Testing

Sr. No.	Parameters	Results	Unit	Limits	Method
1.	pH	7.40	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	36.00	mg/lit	50.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.95	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	20.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G
6.	Ammonia	3.36	mg/lit	5.00	APHA(23 rd Edition) 4500 NH ₃ B C
7.	Total Nitrogen (as N)	6.12	mg/lit	10.00	APHA(23 rd Edition) 4500 N-B

Microbiological Parameters

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

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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	2020/09/286	16/09/2020	16/09/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
04.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/198	Report Date	03/06/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling point	Tilari Canal			
Sample details	Surface Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.69	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.50	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	48.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	121.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	12.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	36.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/05/2021/198	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	8.01	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	3.90	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/05/2021/198	Report Date	03/06/2021
Order / Reference	As per dated 24/05/2021	Sample Received On	24/05/2021
Analysis Started On	24/05/2021	Analysis Completed On	03/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/197	Report Date	29/05/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	29/05/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/05/2021/196	Report Date	29/05/2021	
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 24/05/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	68
Sampling point	LSC Colony			
Sample details	Drinking Water	Date of collection	24/05/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/05/2021	
Analysis Started On	24/05/2021	Analysis Completed On	29/05/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa (Goa State) (G-A1)				
Average Ambient Temperature (°C)	29.8	Average Humidity (%)	76	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	2.4	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0068	18.16	3.68	3.32	<9.00	0.05	22.65
2.	07/06/2021	SEE/AR/06/2021/0188	37.48	24.16	<3.00	<9.00	0.06	45.30
3.	10/06/2021	SEE/AR/06/2021/0266	24.67	8.24	<3.00	<9.00	0.07	32.91
4.	14/06/2021	SEE/AR/06/2021/0318	17.37	9.41	4.20	9.85	0.05	28.43
5.	17/06/2021	SEE/AR/06/2021/0382	20.14	12.35	<3.00	<9.00	0.06	26.52
6.	21/06/2021	SEE/AR/06/2021/0501	30.23	15.76	<3.00	<9.00	0.05	46.07
7.	24/06/2021	SEE/AR/06/2021/0565	27.65	10.85	<3.00	<9.00	0.07	38.77
8.	28/06/2021	SEE/AR/06/2021/0650	32.15	9.86	<3.00	<9.00	0.06	49.55
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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 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.1899-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/541	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan (Goa State) (G-A2)					
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	75	Latitude	N 15°42'06.1"	
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	199	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0069	25.00	12.54	3.20	<9.00	0.03	35.32
2.	07/06/2021	SEE/AR/06/2021/0189	36.60	22.59	<3.00	<9.00	0.05	43.76
3.	10/06/2021	SEE/AR/06/2021/0267	35.41	17.25	<3.00	<9.00	0.06	52.69
4.	14/06/2021	SEE/AR/06/2021/0319	25.25	12.50	4.17	<9.00	0.05	42.33
5.	17/06/2021	SEE/AR/06/2021/0383	21.41	10.57	<3.00	<9.00	0.03	42.05
6.	21/06/2021	SEE/AR/06/2021/0502	35.69	14.78	<3.00	<9.00	0.06	50.78
7.	24/06/2021	SEE/AR/06/2021/0566	21.76	8.57	<3.00	<9.00	0.05	32.55
8.	28/06/2021	SEE/AR/06/2021/0651	22.18	5.36	<3.00	<9.00	0.03	28.38
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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

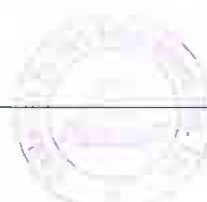
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Calibration details of Equipment used for Sampling & Analysis

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.1904-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/548	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 301-DTE-2010)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	ECL/SEEPL/2020-21/FLOW/537	24/07/2020	24/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar (Goa State) (G-A3)					
Average Ambient Temperature (°C)	29.9	Average Humidity (%)	81	Latitude	N 15°45'37.3"	
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	234	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0070	16.38	5.40	<3.00	9.27	0.06	14.75
2.	07/06/2021	SEE/AR/06/2021/0190	30.10	19.99	<3.00	<9.00	0.03	41.68
3.	10/06/2021	SEE/AR/06/2021/0268	21.60	12.85	<3.00	<9.00	0.07	35.70
4.	14/06/2021	SEE/AR/06/2021/0320	17.31	8.99	<3.00	9.93	0.05	13.89
5.	17/06/2021	SEE/AR/06/2021/0384	20.57	11.28	<3.00	<9.00	0.03	16.11
6.	21/06/2021	SEE/AR/06/2021/0503	11.45	5.67	<3.00	<9.00	0.07	18.54
7.	24/06/2021	SEE/AR/06/2021/0567	20.56	8.53	<3.00	<9.00	0.08	29.55
8.	28/06/2021	SEE/AR/06/2021/0652	19.96	1.47	<3.00	<9.00	0.03	23.78
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1901-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/540	24/07/2020	24/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR No. 109-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/631	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State) (G-A4)					
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	78	Latitude	N 15°41'41.9"	
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	189	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0071	18.42	12.29	<3.00	<9.00	0.07	35.12
2.	07/06/2021	SEE/AR/06/2021/0191	34.33	14.34	<3.00	<9.00	0.05	45.96
3.	10/06/2021	SEE/AR/06/2021/0269	26.50	9.15	<3.00	<9.00	0.08	38.06
4.	14/06/2021	SEE/AR/06/2021/0321	17.50	9.48	<3.00	10.73	0.07	23.61
5.	17/06/2021	SEE/AR/06/2021/0385	22.84	10.64	<3.00	<9.00	0.05	23.48
6.	21/06/2021	SEE/AR/06/2021/0504	27.44	5.21	<3.00	<9.00	0.03	33.95
7.	24/06/2021	SEE/AR/06/2021/0568	15.60	8.12	<3.00	<9.00	0.05	24.34
8.	28/06/2021	SEE/AR/06/2021/0653	13.96	6.89	<3.00	<9.00	0.05	19.12
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

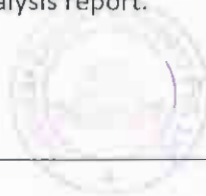
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Calibration details of Equipment used for Sampling & Analysis

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)	ECL/SEEPL/2020-21/FLOW/1845	14/10/2020	14/10/2021

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	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem (Goa State) (G-A5)				
Average Ambient Temperature (°C)	30.0	Average Humidity (%)	72	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	211	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0072	12.43	7.15	<3.00	<9.00	0.03	19.82
2.	07/06/2021	SEE/AR/06/2021/0192	28.02	16.13	<3.00	<9.00	0.07	34.19
3.	10/06/2021	SEE/AR/06/2021/0270	26.37	14.58	<3.00	<9.00	0.05	22.49
4.	14/06/2021	SEE/AR/06/2021/0322	17.80	10.99	<3.00	9.45	0.06	10.82
5.	17/06/2021	SEE/AR/06/2021/0386	20.11	8.69	<3.00	<9.00	0.07	28.82
6.	21/06/2021	SEE/AR/06/2021/0505	26.45	10.63	<3.00	<9.00	0.05	37.11
7.	24/06/2021	SEE/AR/06/2021/0569	31.56	14.65	<3.00	<9.00	0.06	47.80
8.	28/06/2021	SEE/AR/06/2021/0654	16.19	4.74	<3.00	<9.00	0.07	25.29
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/584	29/07/2020	29/07/2021

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	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State) (G-A6)				
Average Ambient Temperature (°C)	28.9	Average Humidity (%)	79	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	243	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0073	28.76	13.47	<3.00	<9.00	0.05	41.14
2.	07/06/2021	SEE/AR/06/2021/0193	20.33	9.04	<3.00	<9.00	0.03	28.29
3.	10/06/2021	SEE/AR/06/2021/0271	31.74	16.70	<3.00	<9.00	0.03	41.91
4.	14/06/2021	SEE/AR/06/2021/0323	28.74	17.22	3.11	9.86	0.06	44.87
5.	17/06/2021	SEE/AR/06/2021/0387	18.16	12.44	<3.00	<9.00	0.05	24.62
6.	21/06/2021	SEE/AR/06/2021/0506	30.60	11.22	<3.00	<9.00	0.08	41.86
7.	24/06/2021	SEE/AR/06/2021/0570	24.86	4.35	<3.00	<9.00	0.07	29.70
8.	28/06/2021	SEE/AR/06/2021/0655	29.48	6.99	<3.00	<9.00	0.05	40.07
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

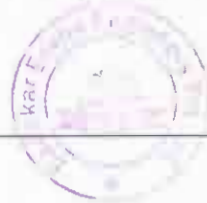
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Calibration details of Equipment used for Sampling & Analysis

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)	ECL/SEEPL/2020-21/FLOW/583	29/07/2020	29/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda (Maharashtra State) (M-A1)					
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	83	Latitude	N15°43'01.3"	
Average Wind Speed (km/hr)	2.8	Average Wind direction (Deg)	213	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0074	14.70	6.41	5.14	<9.00	0.07	23.25
2.	07/06/2021	SEE/AR/06/2021/0194	32.11	10.40	<3.00	<9.00	0.05	42.50
3.	10/06/2021	SEE/AR/06/2021/0272	25.17	8.95	<3.00	<9.00	0.06	34.64
4.	14/06/2021	SEE/AR/06/2021/0324	31.98	15.13	<3.00	<9.00	0.03	47.10
5.	17/06/2021	SEE/AR/06/2021/0388	26.55	9.81	<3.00	<9.00	0.05	36.37
6.	21/06/2021	SEE/AR/06/2021/0507	8.65	3.82	<3.00	<9.00	0.06	13.65
7.	24/06/2021	SEE/AR/06/2021/0571	16.60	6.11	<3.00	<9.00	0.03	23.69
8.	28/06/2021	SEE/AR/06/2021/0656	20.66	3.31	<3.00	<9.00	0.05	25.93
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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.

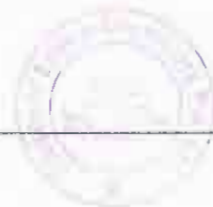
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Calibration details of Equipment used for Sampling & Analysis

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.1456-DTD-2009)	ECL/SEEPL/2020-21/FLOW/547	25/07/2020	25/07/2021

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	ECL/SEEPL/2020-21/FLOW/587	29/07/2020	29/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State) (M-A2)				
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	76	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	2.3	Average Wind direction (Deg)	189	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0075	14.52	10.69	<3.00	<9.00	0.07	32.48
2.	07/06/2021	SEE/AR/06/2021/0195	28.67	21.67	<3.00	<9.00	0.05	50.32
3.	10/06/2021	SEE/AR/06/2021/0273	22.48	12.35	<3.00	<9.00	0.03	34.91
4.	14/06/2021	SEE/AR/06/2021/0325	24.66	9.46	<3.00	<9.00	0.06	32.10
5.	17/06/2021	SEE/AR/06/2021/0389	15.77	7.22	<3.00	<9.00	0.05	20.04
6.	21/06/2021	SEE/AR/06/2021/0508	28.40	8.55	<3.00	<9.00	0.03	37.96
7.	24/06/2021	SEE/AR/06/2021/0572	21.35	4.29	<3.00	<9.00	0.07	25.66
8.	28/06/2021	SEE/AR/06/2021/0657	8.46	11.34	<3.00	<9.00	0.05	26.33
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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

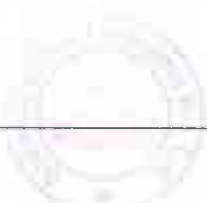
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Calibration details of Equipment used for Sampling & Analysis

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. 2228-DTK-2011)	EI/FF/620	19/02/2021	18/02/2022

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	ECL/SEEPL/2020-21/FLOW/536	23/07/2020	23/07/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde (Maharashtra State) (M-A3)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	81	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	2.6	Average Wind direction (Deg)	187	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	03/06/2021	SEE/AR/06/2021/0076	16.24	5.99	3.00	<9.00	0.03	21.83
2.	07/06/2021	SEE/AR/06/2021/0196	30.15	20.43	<3.00	<9.00	0.06	54.14
3.	10/06/2021	SEE/AR/06/2021/0274	20.45	11.27	<3.00	<9.00	0.05	31.76
4.	14/06/2021	SEE/AR/06/2021/0326	35.62	10.39	<3.00	<9.00	0.03	49.57
5.	17/06/2021	SEE/AR/06/2021/0390	22.50	7.11	<3.00	<9.00	0.07	29.62
6.	21/06/2021	SEE/AR/06/2021/0509	13.18	9.24	<3.00	<9.00	0.05	22.62
7.	24/06/2021	SEE/AR/06/2021/0573	25.37	11.05	<3.00	<9.00	0.06	36.48
8.	28/06/2021	SEE/AR/06/2021/0658	32.66	1.13	<3.00	<9.00	0.07	35.64
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/550	25/07/2020	25/07/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 99-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/629	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/06/2021/0275-0276, 0297-0298, 0327, 0295-0296, 0454, 0453, 0328, 0452, 0451	Report Date	24/06/2021
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.	10/06/2021	SEE/AR/06/2021/0275	G-N1	I	Mopa	32.1	84.9	61.7	30.0	66.6	53.7
2.	10/06/2021	SEE/AR/06/2021/0276	G-N2	i	Shemecheadvan	30.1	81.5	58.3	30.1	81.5	57.5
3.	13/06/2021	SEE/AR/06/2021/0297	G-N3	C	Nagzar	30.1	69.4	54.9	30.1	59.8	47.3
4.	13/06/2021	SEE/AR/06/2021/0298	G-N4	R	Purva Casarvarnem	30.1	65.5	46.1	30.1	49.9	44.3
5.	14/06/2021	SEE/AR/06/2021/0327	G-N5	R	Chandel	32.1	72.7	49.3	30.8	56.0	43.9
6.	11/06/2021	SEE/AR/06/2021/0295	G-N6	R	Khajne Amere Porscodem	34.4	59.9	50.1	30.0	59.1	43.4
7.	11/06/2021	SEE/AR/06/2021/0296	G-N7	R	Warkhand	31.0	60.0	50.9	30.9	51.1	40.1
8.	20/06/2021	SEE/AR/06/2021/0454	G-N8	C	Rajvil Wada Torxem	30.1	71.3	54.6	30.0	68.0	46.9
9.	20/06/2021	SEE/AR/06/2021/0453	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.1	66.6	55.0	30.0	66.6	48.0
10.	14/06/2021	SEE/AR/06/2021/0328	M-N1	R	Satarda	31.0	73.4	49.6	34.6	49.9	40.4
11.	19/06/2021	SEE/AR/06/2021/0452	M-N2	R	Dingna	30.0	70.1	46.8	30.0	44.4	39.6
12.	19/06/2021	SEE/AR/06/2021/0451	M-N3	R	Netarde	30.0	61.4	49.7	30.0	43.6	35.9

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 9.00pm and night time is reckoned in between 9.00pm 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 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 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/199	17/07/2020	16/07/2021

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/198	17/07/2020	16/07/2021

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/200	17/07/2020	16/07/2021

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/201	17/07/2020	16/07/2021



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WORKPLACE NOISE LEVEL MONITORING REPORT			
Report No.	SEE/AR/06/2021/0659-0663	Report Date	29/06/2021
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	28/06/2021		

Chemical Testing - Atmospheric Pollution

Sr. No.	Report No.	Sampling Location (From 1.0 meter off)	Noise in dB (A)
			Day Time
01.	SEE/AR/06/2021/0659	Ripper Excavator	78.0
02.	SEE/AR/06/2021/0660	ACC Batching Plant	77.6
03.	SEE/AR/06/2021/0661	P.T.B. Area	67.5
04.	SEE/AR/06/2021/0662	Apron Area (Ripper)	79.1
05.	SEE/AR/06/2021/0663	A.T.C. Area	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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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/200	17/07/2020	16/07/2021



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STACK EMISSION REPORT

Report No.	SEE/AR/06/2021/0409	Report Date	22/06/2021		
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	18/06/2021	Temperature(°C)	28.3	Humidity (%)	66
Analysis Started On	18/06/2021	Analysis Completed On	22/06/2021		

STACK DETAILS

Attached To	Diesel Generator (Caterpillar - 500 KVA) (Near ACC Plant)
Shape	Round
Diameter	0.15 Mtr
Height From Ground Level	5.0 Mtr
Material of Construction	M.S.
Temperature	302 °C
Velocity of Flue Gases	5.95 m/sec
Volumetric Flue Gas Flow Rate	379.13 m ³ /hour
Volumetric Flue Gas Flow Rate	196.22 Nm ³ /hour
Type of Fuel	H.S.D.
Fuel Consumption	20.00 lit/hr
Load	300.00 KVA (60%)

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	SO ₂	0.10	-	Kg/hour	IS 11255(Part II)
02.	NO _x	0.14	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	0.07	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.


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Calibration details of Equipment used for Sampling & Analysis

Stack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	ECL/SEEPL/2020-21/FLOW/3238A	16/12/2020	16/12/2021

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

FLUE GAS ANALYSER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Flue-Gas Analyser (Sr. No.20190427206A)	25/04/2021	24/04/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/267	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/268	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	LSC Colony			
Sample details	Drinking Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/269	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C 28.1	Humidity % 67
Sampling point	R R Canteen			
Sample details	Drinking Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	


Microbiological Parameters


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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/271	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	PTB			
Sample details	Drinking Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/326	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 4 at Uguem			
Sample details	Storm Water Outfall 1:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.66	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	74.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	35.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	35.00	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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V. Chopdekar
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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/327	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	3.63	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.20	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	49.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	35.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/328	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	3.80	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	81.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	57.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	70.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/329	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandei			
Sample details	Storm Water Outfall 4:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.40	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	15.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	43.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/330	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	4.26	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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)	82.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	32.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	14.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/331	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

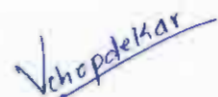
Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.85	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	48.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.60	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	73.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	3.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	27.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	89.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/332	Report Date	30/06/2021	
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 25/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	25/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	25/06/2021	
Analysis Started On	25/06/2021	Analysis Completed On	30/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.36	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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)	91.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	3.20	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	21.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	13.00	NTU	APHA(23 rd Edition) 2130-B

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/354	Report Date	02/07/2021	
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 28/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	28/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	28/06/2021	
Analysis Started On	28/06/2021	Analysis Completed On	02/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.41	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	84.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	3.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	32.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	95.00	NTU	APHA(23 rd Edition) 2130-B

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☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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BRANCH OFF.: : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN No. U45209MH1998PTC-116379

Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2020/09/286	16/09/2020	16/09/2021
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	26/07/2021	26/07/2022



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B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101.
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/270	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	Tilari Canal			
Sample details	Surface Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	5.92	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.81	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	4.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	24.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	19.52	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	<1.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/06/2021/270	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

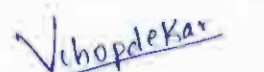
Chemical Testing

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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.03	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	1.19	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)


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Report No.	SEE/06/2021/270	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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


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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/272	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	Borewell 1			
Sample details	Drinking Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.91	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.88	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	96.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	128.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	15.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	11.96	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	80.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/06/2021/272	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

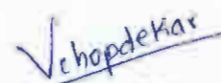
Chemical Testing

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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	18.43	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.30	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	8.26	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	5.44	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	6.35	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)


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Report No.	SEE/06/2021/272	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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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/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/273	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling point	Borewell No. 3			
Sample details	Ground Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.66	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.92	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	104.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	135.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	22.02	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	90.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34); 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991


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Report No.	SEE/06/2021/273	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	14.42	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.23	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	13.11	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	0.05	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	4.15	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	4.93	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)


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Report No.	SEE/06/2021/273	Report Date	28/06/2021
Order / Reference	As per dated 21/06/2021	Sample Received On	21/06/2021
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021
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	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/263	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.85	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	432.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	138.75	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	109.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	9.80	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/06/2021/264	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.58	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	72.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	18.00	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	46.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G

* Limits: General standards for Discharge of Environmental Pollutants into Inland Surface water, as per The Environment (Protection) Rules, 1986.

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/265	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Inlet Water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.59	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	640.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	208.25	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	274.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	19.20	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/06/041	27/06/2020	27/06/2021



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/06/2021/266	Report Date	28/06/2021	
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 21/06/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Outlet water	Date of collection	21/06/2021	
Sample Collected by	SEEPL Representative	Sample Received On	21/06/2021	
Analysis Started On	21/06/2021	Analysis Completed On	28/06/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

Chemical Testing

Sr. No.	Parameters	Results	Unit	Limits	Method
1.	pH	7.19	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	50.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.50	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	10.00	mg/lit	20.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	10.00	APHA(23 rd Edition) 5520-O &G
6.	Ammonia	1.53	mg/lit	5.00	APHA(23 rd Edition) 4500 NH ₃ B C
7.	Total Nitrogen (as N)	7.00	mg/lit	10.00	APHA(23 rd Edition) 4500 N-B

Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	26	MPN Index/100ml	100	APHA (23 rd Edition) 9221-E
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Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa(Goa State)(G-A1)					
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	78	Latitude	N 15°45'51.1"	
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	289	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0034	25.70	12.56	<3.00	<9.00	0.03	8.21
2.	05/07/2021	SEE/AR/07/2021/0116	32.16	19.53	<3.00	<9.00	0.05	55.43
3.	08/07/2021	SEE/AR/07/2021/0175	30.82	16.61	<3.00	<9.00	0.06	49.77
4.	12/07/2021	SEE/AR/07/2021/0195	39.33	18.84	<3.00	<9.00	0.08	60.81
5.	15/07/2021	SEE/AR/07/2021/0227	31.67	15.40	<3.00	<9.00	0.05	48.31
6.	19/07/2021	SEE/AR/07/2021/0252	34.32	17.47	<3.00	<9.00	0.03	53.94
7.	22/07/2021	SEE/AR/07/2021/0308	25.12	9.16	3.08	<9.00	0.06	31.75
8.	26/07/2021	SEE/AR/07/2021/0329	31.48	11.35	<3.00	<9.00	0.05	44.16
9.	29/07/2021	SEE/AR/07/2021/0446	28.57	8.23	3.08	<9.00	0.02	37.21
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³
Method			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*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 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.1899-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/541	24/07/2020	24/07/2021

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.2228-DTK-2011)	EI/FF/620	18/02/2021	19/02/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemeheadvan(Goa State) (G-A2)					
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	82	Latitude	N 15°42'06.1"	
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	312	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0035	24.76	8.34	<3.00	<9.00	0.03	33.10
2.	05/07/2021	SEE/AR/07/2021/0117	26.27	8.74	<3.00	<9.00	0.07	32.90
3.	08/07/2021	SEE/AR/07/2021/0176	35.16	10.35	<3.00	<9.00	0.05	51.28
4.	12/07/2021	SEE/AR/07/2021/0196	34.12	16.72	<3.00	<9.00	0.06	51.89
5.	15/07/2021	SEE/AR/07/2021/0228	28.70	7.68	<3.00	<9.00	0.03	36.88
6.	19/07/2021	SEE/AR/07/2021/0253	26.92	10.23	4.05	<9.00	0.06	37.60
7.	22/07/2021	SEE/AR/07/2021/0309	21.64	5.81	<3.00	<9.00	0.05	27.81
8.	26/07/2021	SEE/AR/07/2021/0330	28.30	6.80	<3.00	<9.00	0.03	34.85
9.	29/07/2021	SEE/AR/07/2021/0447	20.77	6.61	<3.00	<9.00	0.05	29.26
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³
Method			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*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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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.1904-DTJ-2014)	ECL/SEEPL/2020-21/FLOW/548	25/07/2020	25/07/2021

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. 99-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/629	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	77	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	254	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0036	19.52	12.48	<3.00	<9.00	0.03	12.87
2.	05/07/2021	SEE/AR/07/2021/0118	21.00	13.52	<3.00	<9.00	0.06	16.69
3.	08/07/2021	SEE/AR/07/2021/0177	20.55	5.87	<3.00	<9.00	0.05	19.75
4.	12/07/2021	SEE/AR/07/2021/0197	47.64	14.62	<3.00	<9.00	0.03	64.58
5.	14/07/2021	SEE/AR/07/2021/0214	36.84	10.76	<3.00	<9.00	0.06	48.07
6.	19/07/2021	SEE/AR/07/2021/0254	25.76	9.51	5.62	<9.00	0.05	36.43
7.	22/07/2021	SEE/AR/07/2021/0310	18.20	4.62	<3.00	10.82	0.03	23.47
8.	26/07/2021	SEE/AR/07/2021/0331	21.81	5.23	3.76	<9.00	0.05	27.64
9.	29/07/2021	SEE/AR/07/2021/0448	22.48	6.34	<3.00	<9.00	0.06	29.40
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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V. Chopdekar
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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.1901-DTJ-2014)	ECL/SEEPL/2020 -21/FLOW/540	24/07/2020	24/07/2021

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(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. 109-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/631	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	29.3	Average Humidity (%)	75	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	1.9	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0037	11.22	10.28	<3.00	<9.00	0.05	22.76
2.	05/07/2021	SEE/AR/07/2021/0119	16.16	6.45	<3.00	<9.00	0.07	13.42
3.	08/07/2021	SEE/AR/07/2021/0178	10.14	4.09	<3.00	<9.00	0.08	17.86
4.	12/07/2021	SEE/AR/07/2021/0198	26.68	13.69	<3.00	<9.00	0.05	40.91
5.	15/07/2021	SEE/AR/07/2021/0230	31.37	10.65	<3.00	<9.00	0.06	36.89
6.	19/07/2021	SEE/AR/07/2021/0255	13.86	8.79	<3.00	9.86	0.02	25.47
7.	22/07/2021	SEE/AR/07/2021/0311	18.68	6.46	<3.00	<9.00	0.05	12.24
8.	26/07/2021	SEE/AR/07/2021/0332	34.29	14.30	<3.00	<9.00	0.03	50.31
9.	29/07/2021	SEE/AR/07/2021/0449	31.70	12.62	<3.00	<9.00	0.07	45.56
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/1845	14/10/2020	14/10/2021

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	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem (Goa State)(G-A5)				
Average Ambient Temperature (°C)	28.3	Average Humidity (%)	83	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	213	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0038	14.56	4.29	<3.00	<9.00	0.07	19.17
2.	05/07/2021	SEE/AR/07/2021/0120	19.80	4.56	<3.00	<9.00	0.03	18.85
3.	08/07/2021	SEE/AR/07/2021/0179	17.42	8.85	<3.00	<9.00	0.06	13.16
4.	12/07/2021	SEE/AR/07/2021/0199	21.45	11.55	<3.00	<9.00	0.05	33.86
5.	14/07/2021	SEE/AR/07/2021/0215	16.40	6.87	<3.00	<9.00	0.07	23.95
6.	19/07/2021	SEE/AR/07/2021/0256	17.59	5.49	4.95	8.82	0.06	23.46
7.	22/07/2021	SEE/AR/07/2021/0312	12.60	6.76	<3.00	<9.00	0.03	11.71
8.	26/07/2021	SEE/AR/07/2021/0333	14.36	6.15	3.68	14.15	0.05	21.58
9.	29/07/2021	SEE/AR/07/2021/0450	18.77	5.81	<3.00	<9.00	0.06	25.03
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.2027-DTD-2016)	ECL/SEEPL/2020-21/FLOW/586	29/07/2020	29/07/2021

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(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. 288-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021

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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	29.2	Average Humidity (%)	79	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	188	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0039	22.06	11.68	<3.00	<9.00	0.06	34.23
2.	05/07/2021	SEE/AR/07/2021/0121	28.76	8.11	<3.00	<9.00	0.05	35.78
3.	08/07/2021	SEE/AR/07/2021/0180	21.19	12.35	<3.00	<9.00	0.08	35.81
4.	12/07/2021	SEE/AR/07/2021/0200	27.87	8.61	<3.00	<9.00	0.03	38.05
5.	14/07/2021	SEE/AR/07/2021/0216	15.51	4.80	<3.00	<9.00	0.05	20.86
6.	19/07/2021	SEE/AR/07/2021/0257	18.34	8.41	5.96	<9.00	0.03	27.43
7.	22/07/2021	SEE/AR/07/2021/0313	19.60	4.56	<3.00	<9.00	0.06	24.60
8.	26/07/2021	SEE/AR/07/2021/0334	25.61	10.29	4.30	<9.00	0.05	37.12
9.	29/07/2021	SEE/AR/07/2021/0451	22.63	7.16	<3.00	<9.00	0.03	30.15
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	ECL/SEEPL/2020-21/FLOW/583	29/07/2020	29/07/2021

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. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	28.2	Average Humidity (%)	80	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	208	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0040	24.16	8.24	<3.00	<9.00	0.03	33.80
2.	05/07/2021	SEE/AR/07/2021/0122	17.70	6.41	<3.00	<9.00	0.07	36.76
3.	08/07/2021	SEE/AR/07/2021/0181	29.92	9.58	<3.00	<9.00	0.05	43.87
4.	12/07/2021	SEE/AR/07/2021/0201	30.86	10.78	<3.00	<9.00	0.07	42.10
5.	14/07/2021	SEE/AR/07/2021/0217	25.68	11.47	<3.00	<9.00	0.03	37.39
6.	19/07/2021	SEE/AR/07/2021/0258	10.81	4.16	4.04	9.63	0.05	15.49
7.	22/07/2021	SEE/AR/07/2021/0314	16.80	7.66	<3.00	<9.00	0.07	8.60
8.	26/07/2021	SEE/AR/07/2021/0335	9.47	3.99	<3.00	<9.00	0.06	14.21
9.	29/07/2021	SEE/AR/07/2021/0452	19.36	4.59	<3.00	11.85	0.05	24.06
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1456-DTD-2009)	ECL/SEEPL/2020-21/FLOW/547	25/07/2020	25/07/2021

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(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. 104-DTK-2012)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/587	29/07/2020	29/07/2021

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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna(Maharashtra State)(M-A2)				
Average Ambient Temperature (°C)	29.6	Average Humidity (%)	84	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	178	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0041	10.42	5.46	<3.00	<9.00	0.05	16.12
2.	05/07/2021	SEE/AR/07/2021/0123	14.27	6.66	<3.00	<9.00	0.07	15.20
3.	08/07/2021	SEE/AR/07/2021/0182	18.32	7.65	<3.00	<9.00	0.03	29.15
4.	12/07/2021	SEE/AR/07/2021/0202	21.56	11.81	<3.00	<9.00	0.06	34.21
5.	14/07/2021	SEE/AR/07/2021/0218	16.40	5.68	<3.00	<9.00	0.03	23.42
6.	19/07/2021	SEE/AR/07/2021/0259	21.46	6.16	5.22	<9.00	0.06	27.64
7.	22/07/2021	SEE/AR/07/2021/0315	12.10	5.12	<3.00	<9.00	0.05	17.24
8.	26/07/2021	SEE/AR/07/2021/0336	21.33	10.81	<3.00	<9.00	0.03	33.81
9.	29/07/2021	SEE/AR/07/2021/0453	16.60	3.71	<3.00	<9.00	0.06	20.57
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.1898-DTJ-2014	ECL/SEEPL/2020-21/FLOW/551	25/07/2020	25/07/2021

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(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. 381-DTD-2016)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/536	23/07/2020	23/07/2021

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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	31/07/2021		
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 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	73	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	2.3	Average Wind direction (Deg)	199	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	01/07/2021	SEE/AR/07/2021/0042	18.63	5.10	<3.00	<9.00	0.05	14.80
2.	05/07/2021	SEE/AR/07/2021/0124	16.24	7.94	<3.00	<9.00	0.03	25.73
3.	08/07/2021	SEE/AR/07/2021/0183	15.52	8.28	<3.00	<9.00	0.07	29.40
4.	12/07/2021	SEE/AR/07/2021/0203	20.76	4.78	<3.00	<9.00	0.03	25.79
5.	14/07/2021	SEE/AR/07/2021/0219	22.35	9.65	<3.00	<9.00	0.05	32.14
6.	19/07/2021	SEE/AR/07/2021/0260	26.36	8.16	8.67	<9.00	0.08	34.53
7.	22/07/2021	SEE/AR/07/2021/0316	9.48	4.44	7.22	<9.00	0.03	12.20
8.	26/07/2021	SEE/AR/07/2021/0337	14.67	4.70	<3.00	<9.00	0.07	21.32
9.	29/07/2021	SEE/AR/07/2021/0454	21.62	9.17	<3.00	<9.00	0.05	31.01
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³
Method			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*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.

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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)	ECL/SEEPL/2020-21/FLOW/550	25/07/2020	25/07/2021

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. 551-DTK-2010)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	EI/FF/625	19/02/2021	18/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/07/2021/0304	Date of Issue	28/07/2021		
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	22/07/2021	Temperature(°C)	28.1	Humidity (%)	66
Analysis Started On	27/07/2021	Analysis Completed On	27/07/2021		


AMBIENT AIR LOCATION

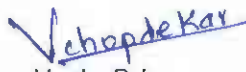
Location of ambient air station	Mopa Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

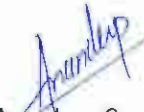
Chemical Testing - Atmospheric Pollution

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


Arandeep Sawant
Authorized Signatory



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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/07/2021/0305	Date of Issue	28/07/2021		
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	22/07/2021	Temperature(°C)	28.1	Humidity (%)	66
Analysis Started On	27/07/2021	Analysis Completed On	27/07/2021		


AMBIENT AIR LOCATION

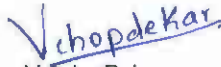
Location of ambient air station	HSD Bunk (Inside Mopa Airport Premises)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

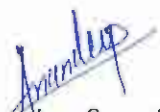
Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

- Note** : Test results related only to the sample tested.
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Varsha Pole
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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/07/2021/0306	Date of Issue	28/07/2021		
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	22/07/2021	Temperature(°C)	28.1	Humidity (%)	66
Analysis Started On	27/07/2021	Analysis Completed On	27/07/2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan (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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/07/2021/0262-0263, 0269-0270,0298-0299, 0317, 0462-0463,0319,0461,0460	Report Date	02/08/2021
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.	19/07/2021	SEE/AR/07/2021/0262	G-N1	I	Mopa	37.7	84.1	63.9	37.5	79.0	58.1
2.	19/07/2021	SEE/AR/07/2021/0263	G-N2	i	Shemecheadvan	33.0	72.0	55.0	31.2	65.1	51.7
3.	20/07/2021	SEE/AR/07/2021/0269	G-N3	C	Nagzar	34.0	61.2	55.8	31.3	62.6	51.2
4.	20/07/2021	SEE/AR/07/2021/0270	G-N4	R	Purva Casarvarnem	30.2	68.5	50.5	30.9	58.4	40.6
5.	21/07/2021	SEE/AR/07/2021/0298	G-N5	R	Chandel	30.0	71.9	49.9	30.0	54.8	39.8
6.	21/07/2021	SEE/AR/07/2021/0299	G-N6	R	Khajne Amere Porscodem	34.4	71.4	50.5	30.0	55.3	41.0
7.	22/07/2021	SEE/AR/07/2021/0317	G-N7	R	Warkhand	30.0	75.5	51.1	30.0	61.8	38.6
8.	31/07/2021	SEE/AR/07/2021/0462	G-N8	C	Rajvil Wada Torxem	38.0	71.3	57.8	35.9	67.1	47.7
9.	31/07/2021	SEE/AR/07/2021/0463	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugven	31.3	72.6	56.8	30.3	59.1	50.2
10.	23/07/2021	SEE/AR/07/2021/0319	M-N1	R	Satarda	32.9	63.2	48.9	33.3	57.9	38.7
11.	30/07/2021	SEE/AR/07/2021/0461	M-N2	R	Dingna	30.0	65.1	49.8	30.2	60.8	39.3
12.	30/07/2021	SEE/AR/07/2021/0460	M-N3	R	Netarde	30.3	62.6	49.0	30.1	64.3	39.7

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 9.00pm and night time is reckoned in between 9.00pm 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 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 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



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ANALYSIS REPORT FOR WATER SAMPLE

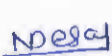
Report No.	SEE/07/2021/220	Report Date	21/07/2021	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 4 at Uguem			
Sample details	Storm Water Outfall 1:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	51.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	11.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	45	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nadakumar Desai
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/221	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	52.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	11.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	51	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.


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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2021/222	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
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 rd Edition) 4500 H+B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.20	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	64.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	15.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	57.00	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.


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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/223	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandel			
Sample details	Storm Water Outfall 4:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.31	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	60.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	10.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	47	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nandakumar Desai
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Varsha Pole

Varsha Pole
Reviewed By



Ananddeep

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/224	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.85	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	18.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	17	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nandakumar Desai
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Vchopdekar
Varsha Pole
Reviewed By



Ananddeep
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/225	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.19	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	60.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	15.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	72	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nandakumar

Nandakumar Desai
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Varsha Pole

Varsha Pole
Reviewed By



Anandeeep

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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/226	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

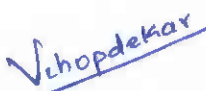
Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.89	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	8.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	<2.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	65.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	3.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	12.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	20	NTU	APHA(23 rd Edition) 2130-B

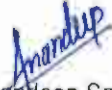
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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-116379

Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2020/09/286	16/09/2020	16/09/2021
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. 61, Patel Estate, Reis Magos, Verem, Alto, Old Belim Road, Bardez, Porvorim, Panaji-Goa-403 101.
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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/227	Report Date	21/07/2021	
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 15/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	15/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	15/07/2021	
Analysis Started On	15/07/2021	Analysis Completed On	21/07/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd 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)	59.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	16.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	57	NTU	APHA(23 rd Edition) 2130-B

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.


Nandakumar Desai
Analyzed by


Varsha Pole
Reviewed By




Ananddeep 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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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-116379

Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/254	Report Date	26/07/2021	
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 19/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	19/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/07/2021	
Analysis Started On	19/07/2021	Analysis Completed On	26/07/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

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); 1983 (RA 2012)
2.	Turbidity	0.91	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	98.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	149.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	16.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	82.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Vchopdekar
Varsha Pole
Reviewed by



Anandeeep Sawant
Authorized Signatory

Report No.	SEE/07/2021/254	Report Date	26/07/2021
Order / Reference	As per dated 19/07/2021	Sample Received On	19/07/2021
Analysis Started On	19/07/2021	Analysis Completed On	26/07/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	19.23	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.30	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	8.25	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	5.44	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	6.35	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Varsha Pole
Reviewed by

Ananddeep Sawant
Authorized Signatory



Report No.	SEE/07/2021/254	Report Date	26/07/2021
Order / Reference	As per dated 19/07/2021	Sample Received On	19/07/2021
Analysis Started On	26/07/2021	Analysis Completed On	26/07/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

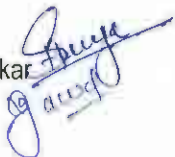
Microbiological Parameters

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

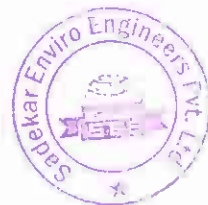
Note: Test results related only to the sample tested.

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1. Shreya Harmalkar
2. Komal Gawas
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/022	2020/08/81	26/08/2020	26/08/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/346	Report Date	02/08/2021	
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 27/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	27/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	27/07/2021	
Analysis Started On	27/07/2021	Analysis Completed On	02/08/2021	
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	6.68	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.85	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	122.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	168.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	29.03	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	88.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
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Report No.	SEE/07/2021/346	Report Date	02/08/2021
Order / Reference	As per dated 27/07/2021	Sample Received On	27/07/2021
Analysis Started On	27/07/2021	Analysis Completed On	02/08/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	16.03	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.72	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	11.65	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	10.29	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	8.78	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
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Anandeeep Sawant
Authorized Signatory

Report No.	SEE/07/2021/346	Report Date	02/08/2021
Order / Reference	As per dated 27/07/2021	Sample Received On	27/07/2021
Analysis Started On	27/07/2021	Analysis Completed On	02/08/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100mi	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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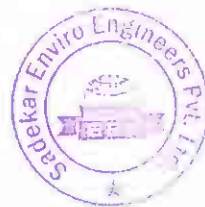
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1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Shreya Harmalkar
Komal Gawas

Varsha Pole
Reviewed by

Vchopdekar



Anandeeep Sawant
Authorized Signatory

Anandeeep

Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/355	Report Date	03/08/2021	
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 29/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	67
Sample details	WTP water	Date of collection	29/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	29/07/2021	
Analysis Started-On	29/07/2021	Analysis Completed On	03/08/2021	
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	8.10	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.86	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	72.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	124.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	12.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	21.08	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	96.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Shreya
Komal

Vehopdekar
Varsha Pole
Reviewed by



Anandup
Anandeeep Sawant
Authorized Signatory

Report No.	SEE/07/2021/355	Report Date	03/08/2021
Order / Reference	As per dated 29/07/2021	Sample Received On	29/07/2021
Analysis Started On	29/07/2021	Analysis Completed On	03/08/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	28.85	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.10	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	5.81	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	5.70	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	6.83	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Varsha Pole
Varsha Pole
Reviewed by



Anandeeep
Anandeeep Sawant
Authorized Signatory

Report No.	SEE/07/2021/355	Report Date	03/08/2021
Order / Reference	As per dated 29/07/2021	Sample Received On	29/07/2021
Analysis Started On	29/07/2021	Analysis Completed On	03/08/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmaikar

2. Komal Gawas

Analyzed by

Shreya

Komal

Varsha Pole

Varsha Pole
Reviewed by



Anandip

Anandip 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	2020/08/81	26/08/2020	26/08/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/255	Report Date	23/07/2021	
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 19/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling point	R R Canteen			
Sample details	Drinking Water	Date of collection	19/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/07/2021	
Analysis Started On	19/07/2021	Analysis Completed On	23/07/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.


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Komal Gawas
Analyzed by


Varsha Pole
Reviewed by




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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/256	Report Date	23/07/2021	
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 19/07/2021	Environmental Condition of Lab	Temp °C 28.1	Humidity % 66
Sampling point	LSC Colony			
Sample details	Drinking Water	Date of collection	19/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/07/2021	
Analysis Started On	23/07/2021	Analysis Completed On	23/07/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

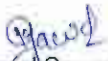
Microbiological Parameters

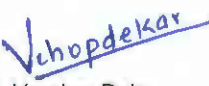
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by


Varsha Pole
Reviewed by




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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/257	Report Date	23/07/2021	
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 19/07/2021	Environmental Condition of Lab	Temp °C 28.1	Humidity % 66
Sampling point	PTB			
Sample details	Drinking Water	Date of collection	19/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/07/2021	
Analysis Started On	19/07/2021	Analysis Completed On	23/07/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	


Microbiological Parameters


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

Note: Test results related only to the sample tested.


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Komal Gawas
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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/306	Report Date	27/07/2021	
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 23/07/2021	Environmental Condition of Lab	Temp ° C 27.8	Humidity % 69
Sampling point	VNC Colony			
Sample details	Drinking Water	Date of collection	23/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/07/2021	
Analysis Started On	23/07/2021	Analysis Completed On	27/07/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Komal Gawas
Komal Gawas
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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/289	Report Date	26/07/2021	
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 20/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	20/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/07/2021	
Analysis Started On	20/07/2021	Analysis Completed On	26/07/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	480.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	150.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	136.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	8.00	mg/lit	APHA(23 rd Edition) 5520-O &G

Note: Test results related only to the sample tested.

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N Desai

Nandakumar Desai
Analyzed by

V Chopdekar

Varsha Pole
Reviewed By



Anandup

Anandup Sawant
Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, 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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/290	Report Date	26/07/2021	
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 20/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet water	Date of collection	20/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/07/2021	
Analysis Started On	20/07/2021	Analysis Completed On	26/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.74	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	96.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	19.20	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	41.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.40	mg/lit	10.00	APHA(23 rd Edition) 5520-O &G

* Limits: General standards for Discharge of Environmental Pollutants into Inland Surface water, as per The Environment (Protection) Rules, 1986.

Note: Test results related only to the sample tested.

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Nandakumar Desai

Nandakumar Desai
Analyzed by

Varsha Pole

Varsha Pole
Reviewed By



Ananddeep Sawant

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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/07/2021/287	Report Date	26/07/2021	
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 20/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Inlet Water	Date of collection	20/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/07/2021	
Analysis Started On	20/07/2021	Analysis Completed On	26/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.68	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	896.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	262.50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	250.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	12.40	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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Nandakumar Desai

Nandakumar Desai
Analyzed by

Varsha Pole

Varsha Pole
Reviewed By



Anandkeep Sawant
Anandkeep 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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/07/2021/288	Report Date	26/07/2021	
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 20/07/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Outlet water	Date of collection	20/07/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/07/2021	
Analysis Started On	20/07/2021	Analysis Completed On	26/07/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

Chemical Testing

Sr. No.	Parameters	Results	Unit	Limits	Method
1.	pH	6.70	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	50.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.20	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	20.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G
6.	Ammonia	2.24	mg/lit	5.00	APHA(23 rd Edition) 4500 NH ₃ B C
7.	Total Nitrogen (as N)	8.75	mg/lit	10.00	APHA(23 rd Edition) 4500 N-B

Microbiological Parameters

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

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Nesaj

Nandakumar Desai
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	2020/09/286	16/09/2020	16/09/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa(Goa State)(G-A1)				
Average Ambient Temperature (°C)	29.8	Average Humidity (%)	78	Latitude	N 15°45'51.1"
Average Wind Speed (km/hr)	2.1	Average Wind direction (Deg)	198	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0026	23.72	11.41	7.71	10.21	0.08	36.42
2.	05/08/2021	SEE/AR/08/2021/0094	30.26	16.54	<3.00	<6.00	0.06	47.88
3.	09/08/2021	SEE/AR/08/2021/0178	37.00	17.22	4.13	<6.00	0.03	55.77
4.	12/08/2021	SEE/AR/08/2021/0236	28.46	12.60	<3.00	<6.00	0.05	41.63
5.	16/08/2021	SEE/AR/08/2021/0298	18.01	10.59	<3.00	<6.00	0.06	29.33
6.	19/08/2021	SEE/AR/08/2021/0370	29.40	13.29	4.39	8.15	0.05	44.12
7.	23/08/2021	SEE/AR/08/2021/0449	41.13	12.64	<3.00	<6.00	0.07	55.06
8.	26/08/2021	SEE/AR/08/2021/0471	36.32	16.26	<3.00	<6.00	0.03	52.95
9.	30/08/2021	SEE/AR/08/2021/0485	34.76	21.60	<3.00	<6.00	0.05	58.50
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

Checked by
Arundh



Authorized Signatory
Vchopdekar

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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.2228-DTK-2011)	EI/FF/620	19/02/2021	18/02/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemeheadvan(Goa State) (G-A2)				
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	81	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.9	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0027	29.37	16.59	<3.00	<6.00	0.03	46.85
2.	05/08/2021	SEE/AR/08/2021/0095	36.27	18.46	<3.00	<6.00	0.05	55.56
3.	09/08/2021	SEE/AR/08/2021/0179	21.24	12.36	<3.00	<6.00	0.06	34.26
4.	12/08/2021	SEE/AR/08/2021/0237	22.79	10.26	<3.00	<6.00	0.07	33.94
5.	16/08/2021	SEE/AR/08/2021/0299	17.89	5.66	<3.00	6.27	0.05	24.10
6.	19/08/2021	SEE/AR/08/2021/0371	24.01	9.65	<3.00	<6.00	0.03	34.30
7.	23/08/2021	SEE/AR/08/2021/0450	20.25	11.26	<3.00	7.24	0.06	32.56
8.	26/08/2021	SEE/AR/08/2021/0472	17.27	9.08	<3.00	<6.00	0.05	27.03
9.	30/08/2021	SEE/AR/08/2021/0486	26.11	14.79	<3.00	<6.00	0.03	41.33
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

Amaldeep
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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.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. 05-DTK-2011)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	EI/FF/624	19/02/2021	18/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)				
Average Ambient Temperature (°C)	29.4	Average Humidity (%)	84	Latitude	N 15°45'37.3"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	243	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0028	16.35	9.13	<3.00	<6.00	0.05	26.68
2.	05/08/2021	SEE/AR/08/2021/0096	22.96	8.38	<3.00	8.49	0.03	32.68
3.	09/08/2021	SEE/AR/08/2021/0180	19.84	10.48	<3.00	9.78	0.05	30.54
4.	12/08/2021	SEE/AR/08/2021/0238	12.55	8.28	<3.00	<6.00	0.06	21.89
5.	16/08/2021	SEE/AR/08/2021/0300	18.33	9.93	<3.00	<6.00	0.03	29.46
6.	19/08/2021	SEE/AR/08/2021/0372	24.85	16.22	<3.00	10.54	0.05	41.31
7.	23/08/2021	SEE/AR/08/2021/0451	40.12	18.66	<3.00	<6.00	0.06	58.95
8.	26/08/2021	SEE/AR/08/2021/0473	27.31	15.82	3.17	<6.00	0.03	45.65
9.	30/08/2021	SEE/AR/08/2021/0487	19.81	14.52	<3.00	6.47	0.05	38.22
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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 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. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)				
Average Ambient Temperature (°C)	28.7	Average Humidity (%)	78	Latitude	N 15°41'41.9"
Average Wind Speed (km/hr)	2.4	Average Wind direction (Deg)	187	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0029	14.56	6.23	<3.00	6.28	0.06	22.76
2.	05/08/2021	SEE/AR/08/2021/0097	30.51	17.35	3.42	8.46	0.05	49.42
3.	09/08/2021	SEE/AR/08/2021/0181	24.42	12.40	3.16	10.08	0.03	37.59
4.	12/08/2021	SEE/AR/08/2021/0239	14.97	8.41	<3.00	<6.00	0.05	23.98
5.	16/08/2021	SEE/AR/08/2021/0301	22.42	9.03	<3.00	<6.00	0.05	31.61
6.	19/08/2021	SEE/AR/08/2021/0373	17.68	7.46	<3.00	<6.00	0.06	25.52
7.	23/08/2021	SEE/AR/08/2021/0452	24.89	17.92	<3.00	<6.00	0.03	44.00
8.	26/08/2021	SEE/AR/08/2021/0474	44.01	25.22	<3.00	<6.00	0.05	70.98
9.	30/08/2021	SEE/AR/08/2021/0488	32.11	20.22	<3.00	<6.00	0.06	52.95
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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 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. 977-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem(Goa State)(G-A5)				
Average Ambient Temperature (°C)	28.6	Average Humidity (%)	88	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	2.3	Average Wind direction (Deg)	211	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0030	26.62	13.60	<3.00	7.10	0.07	40.78
2.	05/08/2021	SEE/AR/08/2021/0098	28.45	11.48	<3.00	6.77	0.06	41.36
3.	09/08/2021	SEE/AR/08/2021/0182	18.28	6.99	3.11	9.53	0.05	26.71
4.	12/08/2021	SEE/AR/08/2021/0240	14.27	9.27	<3.00	<6.00	0.05	24.90
5.	16/08/2021	SEE/AR/08/2021/0302	15.32	8.55	4.20	<6.00	0.03	24.11
6.	19/08/2021	SEE/AR/08/2021/0374	20.60	7.13	<3.00	<6.00	0.06	28.78
7.	23/08/2021	SEE/AR/08/2021/0453	22.37	10.10	<3.00	<6.00	0.03	33.76
8.	26/08/2021	SEE/AR/08/2021/0475	12.07	5.99	<3.00	<6.00	0.05	20.45
9.	30/08/2021	SEE/AR/08/2021/0489	22.56	20.29	3.45	<6.00	0.07	45.76
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	29.9	Average Humidity (%)	80	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	243	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0031	22.04	17.42	3.09	<6.00	0.05	40.70
2.	05/08/2021	SEE/AR/08/2021/0099	27.81	13.29	<3.00	6.76	0.03	41.81
3.	09/08/2021	SEE/AR/08/2021/0183	17.19	11.23	4.48	13.97	0.06	29.28
4.	12/08/2021	SEE/AR/08/2021/0241	31.57	10.28	<3.00	<6.00	0.05	42.1
5.	16/08/2021	SEE/AR/08/2021/0303	19.22	8.11	<3.00	<6.00	0.03	28.78
6.	19/08/2021	SEE/AR/08/2021/0375	21.67	10.76	<3.00	<6.00	0.06	33.12
7.	23/08/2021	SEE/AR/08/2021/0454	23.17	15.22	<3.00	<6.00	0.05	39.04
8.	26/08/2021	SEE/AR/08/2021/0476	29.21	13.57	<3.00	<6.00	0.06	43.87
9.	30/08/2021	SEE/AR/08/2021/0490	26.25	17.78	<3.00	6.41	0.06	45.60
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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 results relate only to the condition prevailing at the time of sampling

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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.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. 298-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/623	19/02/2021	18/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)				
Average Ambient Temperature (°C)	28.6	Average Humidity (%)	78	Latitude	N15°43'01.3"
Average Wind Speed (km/hr)	1.3	Average Wind direction (Deg)	255	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0032	12.68	7.13	<3.00	6.36	0.03	22.01
2.	05/08/2021	SEE/AR/08/2021/0100	31.27	16.82	3.26	7.23	0.07	49.16
3.	09/08/2021	SEE/AR/08/2021/0184	21.20	7.27	3.50	13.70	0.05	29.01
4.	12/08/2021	SEE/AR/08/2021/0242	16.02	8.84	<3.00	<6.00	0.06	25.73
5.	16/08/2021	SEE/AR/08/2021/0304	20.60	6.88	<3.00	<6.00	0.03	28.26
6.	19/08/2021	SEE/AR/08/2021/0376	22.68	9.20	<3.00	9.88	0.05	32.54
7.	23/08/2021	SEE/AR/08/2021/0455	16.90	11.30	<3.00	<6.00	0.06	30.33
8.	26/08/2021	SEE/AR/08/2021/0477	22.46	13.28	<3.00	6.18	0.03	24.06
9.	30/08/2021	SEE/AR/08/2021/0491	21.16	12.53	<3.00	<6.00	0.05	34.16
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State)(M-A2)				
Average Ambient Temperature (°C)	1.8	Average Humidity (%)	82	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	2.3	Average Wind direction (Deg)	232	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0033	35.34	12.14	<3.00	11.31	0.06	49.05
2.	05/08/2021	SEE/AR/08/2021/0101	24.53	11.26	<3.00	7.78	0.05	36.04
3.	09/08/2021	SEE/AR/08/2021/0185	19.74	10.41	<3.00	7.40	0.03	30.38
4.	12/08/2021	SEE/AR/08/2021/0243	29.18	16.81	<3.00	<6.00	0.06	46.56
5.	16/08/2021	SEE/AR/08/2021/0305	13.67	8.22	3.01	<6.00	0.05	23.49
6.	19/08/2021	SEE/AR/08/2021/0377	24.14	9.93	<3.00	<6.00	0.06	36.11
7.	23/08/2021	SEE/AR/08/2021/0456	19.09	12.33	<3.00	8.25	0.03	33.10
8.	26/08/2021	SEE/AR/08/2021/0478	16.80	8.17	<3.00	<6.00	0.05	25.66
9.	30/08/2021	SEE/AR/08/2021/0492	18.67	5.23	<3.00	<6.00	0.06	24.23
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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.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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/09/2021		
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	Aug 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	28.3	Average Humidity (%)	77	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.8	Average Wind direction (Deg)	215	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/08/2021	SEE/AR/08/2021/0034	22.34	18.21	<3.00	<6.00	0.03	41.61
2.	05/08/2021	SEE/AR/08/2021/0102	20.97	14.22	<3.0	6.00	0.05	37.31
3.	09/08/2021	SEE/AR/08/2021/0186	28.23	10.06	<3.00	<6.00	0.06	39.47
4.	12/08/2021	SEE/AR/08/2021/0244	15.88	7.26	<3.00	<6.00	0.03	23.50
5.	16/08/2021	SEE/AR/08/2021/0306	24.65	10.89	<3.00	<6.00	0.05	36.86
6.	19/08/2021	SEE/AR/08/2021/0378	29.22	14.43	<3.00	<6.00	0.06	44.15
7.	23/08/2021	SEE/AR/08/2021/0457	25.15	15.73	<3.00	<6.00	0.05	41.65
8.	26/08/2021	SEE/AR/08/2021/0479	18.66	6.46	<3.00	<6.00	0.03	26.72
9.	30/08/2021	SEE/AR/08/2021/0493	24.50	16.72	<3.00	<6.00	0.05	41.38
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/08/2021/0091	Date of Issue	13/08/2021		
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	05/08/2021	Temperature(°C)	28.2	Humidity (%)	67
Analysis Started On	12/08/2021	Analysis Completed On	12/08/2021		

AMBIENT AIR LOCATION

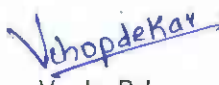
Location of ambient air station	Mopa Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

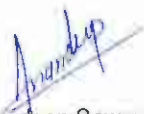
Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

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




Anandeeep Sawant
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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/08/2021/0092	Date of Issue	13/08/2021		
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	05/08/2021	Temperature(°C)	28.2	Humidity (%)	67
Analysis Started On	12/08/2021	Analysis Completed On	12/08/2021		


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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT

Report No.	SEE/AR/08/2021/0093	Date of Issue	13/08/2021		
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	05/08/2021	Temperature(°C)	28.2	Humidity (%)	67
Analysis Started On	12/08/2021	Analysis Completed On	12/08/2021		


AMBIENT AIR LOCATION

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

Chemical Testing - Atmospheric Pollution

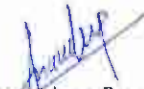
Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

- 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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/08/2021/0379-0380, 0427,0468,0458,0425-0426, 0469, 0483,0424,0470,0467	Report Date	31/08/2021
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.	19/08/2021	SEE/AR/08/2021/0379	G-N1	I	Mopa	30.3	79.9	62.8	30.1	77.9	56.2
2.	19/08/2021	SEE/AR/08/2021/0380	G-N2	I	Shemeheadvan	32.8	76.0	57.9	30.9	71.2	52.6
3.	22/08/2021	SEE/AR/08/2021/0427	G-N3	C	Nagzar	30.0	77.9	60.4	30.3	69.3	50.9
4.	24/08/2021	SEE/AR/08/2021/0468	G-N4	R	Purva Casarvarnem	30.2	77.3	49.8	30.0	65.2	39.8
5.	23/08/2021	SEE/AR/08/2021/0458	G-N5	R	Chandel	30.0	68.9	48.7	30.0	63.3	38.2
6.	20/08/2021	SEE/AR/08/2021/0425	G-N6	R	Khajne Amere Porscodem	30.9	74.1	46.2	30.0	64.5	39.5
7.	22/08/2021	SEE/AR/08/2021/0426	G-N7	R	Warkhand	30.1	72.4	48.3	30.3	63.4	38.5
8.	25/08/2021	SEE/AR/08/2021/0469	G-N8	C	Rajvil Wada Torxem	32.6	76.2	59.7	30.9	69.5	49.8
9.	27/08/2021	SEE/AR/08/2021/0483	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.9	70.4	52.9	30.2	64.3	48.8
10.	20/08/2021	SEE/AR/08/2021/0424	M-N1	R	Satarda	30.0	73.8	46.8	31.0	65.0	38.3
11.	25/08/2021	SEE/AR/08/2021/0470	M-N2	R	Dingna	30.1	70.3	47.3	31.3	65.4	39.4
12.	24/08/2021	SEE/AR/08/2021/0467	M-N3	R	Netarde	30.2	67.9	48.5	30.7	60.4	39.2

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 9.00pm and night time is reckoned in between 9.00pm 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 2015.

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

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Checked by
Arundup



Authorized Signatory
V. Chopdekar

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Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/180	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 4 at Uguem			
Sample details	Storm Water Outfall 1:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

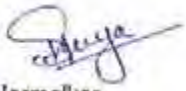
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.76	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	12.00	mg/lit	APHA(23 rd 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)	30.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	12.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	116	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Shreya Harmakar
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/181	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	19.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	10.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	189	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/182	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.98	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	36.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	12.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	121	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/183	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandel			
Sample details	Storm Water Outfall 4:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

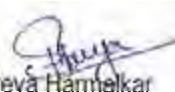
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.17	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	26.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	23.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	38	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/84	Issue Date	10/08/2021	
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 05/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	67
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	05/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	05/08/2021	
Analysis Started On	05/08/2021	Analysis Completed On	10/08/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	64.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	23.01	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	1.60	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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Nandkumar Desai
Analyzed by


Varsha Pole
Reviewed By


Anandeev 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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/184	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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)	28.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	55.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	128	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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Shreya Harimalkar
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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/185	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

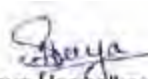
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.80	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	21.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	18.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	138	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Varsha Pole
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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/186	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.92	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	40.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	34.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	21.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	148	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/406	Issue Date	03/09/2021	
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 30/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 4 at Uguem			
Sample details	Storm Water Outfall 1:	Date of collection	30/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	30/08/2021	
Analysis Started On	30/08/2021	Analysis Completed On	03/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.91	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd 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)	6.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	4.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	12.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	26.8	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Ndesai

Nandakumar Desai
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Vchopdekar

Varsha Pole
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Anandup

Anandup 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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/272	Issue Date	25/08/2021	
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 19/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	19/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/08/2021	
Analysis Started On	19/08/2021	Analysis Completed On	25/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

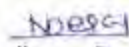
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.86	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	48.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.60	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	56.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	30.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	10	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/273	Issue Date	25/08/2021	
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 19/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	19/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/08/2021	
Analysis Started On	19/08/2021	Analysis Completed On	25/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.83	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	37.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	13.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	20	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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ND2824

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/274	Issue Date	25/08/2021	
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 19/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandel			
Sample details	Storm Water Outfall 4:	Date of collection	19/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/08/2021	
Analysis Started On	19/08/2021	Analysis Completed On	25/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

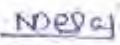
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.99	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	8.00	mg/lit	APHA(23 rd 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)	36.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	14.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	30	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nandkumar Desai
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/275	Issue Date	25/08/2021	
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 19/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	19/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/08/2021	
Analysis Started On	19/08/2021	Analysis Completed On	25/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

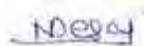
Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.31	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	50.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	19.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	3.00	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Nandkumar Desai
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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/407	Issue Date	03/09/2021	
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 30/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	30/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	30/08/2021	
Analysis Started On	30/08/2021	Analysis Completed On	03/09/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.30	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	38.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	24.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	156	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.


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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/276	Issue Date	25/08/2021	
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 19/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	19/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	19/08/2021	
Analysis Started On	19/08/2021	Analysis Completed On	25/08/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	82.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	164.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	46.00	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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NDesai

Nandkumar Desai
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Vehopdekar

Varsha Pole
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Ananddeep

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/335	Issue Date	30/08/2021	
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 24/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.4	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	24/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/08/2021	
Analysis Started On	24/08/2021	Analysis Completed On	30/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

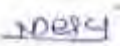
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.67	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd 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)	10.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	20.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	33.00	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/211	Issue Date	23/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.94	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.40	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	100.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	112.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	13.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	88.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

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Report No.	SEE0/8/2021/211	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.02	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	12.82	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.10	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	13.60	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	6.68	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	5.05	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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2. Komal Gawas
Analyzed by

Varsha Pole
Varsha Pole
Reviewed by

Anandeeep Sawant
Anandeeep Sawant
Authorized Signatory

Report No.	SEE/08/2021/211	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	23/08/2021	Analysis Completed On	23/08/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar

2. Komal Gawas

Analyzed by

[Signature]
[Signature]

[Signature]

Varsha Pole
Reviewed by



[Signature]
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/212	Issue Date	23/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021	
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	7.14	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.68	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	94.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	106.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	13.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	5.87	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	82.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Komal Gawas
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Varsha Pole
Reviewed by



Anandeeep Sawant
Anandeeep Sawant
Authorized Signatory

Report No.	SEE/08/2021/212	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	16.83	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.09	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	9.71	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	8.17	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	6.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

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Reviewed by

Ananddeep
Ananddeep Sawant
Authorized Signatory

Report No.	SEE/08/2021/212	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited		

Microbiological Parameters


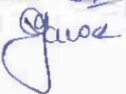
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

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/062	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/207	Issue Date	23/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sample details	WTP water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021	
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	7.40	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.53	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	28.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	39.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	12.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	26.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

V. Chopdekar
Varsha Pole
Reviewed by



Ananddeep
Ananddeep Sawant
Authorized Signatory

Report No.	SEE/08/2021/207	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	8.50	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	9.61	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	2.50	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

Varsha Pole
Reviewed by

Apandeep Sawant
Authorized Signatory

Report No.	SEE/08/2021/207	Issue Date	23/08/2021
Order / Reference	As per dated 16/08/2021	Sample Received On	16/08/2021
Analysis Started On	16/08/2021	Analysis Completed On	23/08/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar
2. Komal Gawas
Analyzed by

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE08/2021/210	Issue Date	20/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling point	R.R. Canteen			
Sample details	Drinking Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	20/08/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by

Varsha Pole
Reviewed by



Anandee 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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE08/2021/206	Issue Date	20/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			27.8	65
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	20/08/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Komal Gawas
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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.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



Sadekar Enviro Engineers Pvt. Ltd.

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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE08/2021/208	Issue Date	20/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			27.8	65
Sampling point	L.S.C Colony			
Sample details	Drinking Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	20/08/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE08/2021/209	Issue Date	20/08/2021	
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 16/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			27.8	65
Sampling point	K.M.V. Colony			
Sample details	Drinking Water	Date of collection	16/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	16/08/2021	
Analysis Started On	16/08/2021	Analysis Completed On	20/08/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	


Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03..	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/336	Issue Date	30/08/2021	
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 24/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.4	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	24/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/08/2021	
Analysis Started On	24/08/2021	Analysis Completed On	30/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	5.66	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	892.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	300.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	151.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	11.00	mg/lit	APHA(23 rd 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.


Vanita Sawant
Analyzed by


Varsha Pote
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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/337	Issue Date	30/08/2021	
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 24/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.4	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	24/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	24/08/2021	
Analysis Started On	24/08/2021	Analysis Completed On	30/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.95	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	104.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	21.42	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	55.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	5.80	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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Vanita Sawant
Analyzed by

Varsha Pole
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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/187	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Inlet Water	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

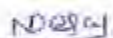
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.36	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	432.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	127.65	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	110.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	9.40	mg/lit	APHA(23 rd Edition) 5520-O & G

Note: Test results related only to the sample tested.

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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	2020/09/286	16/09/2020	16/09/2021
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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/08/2021/188	Issue Date	18/08/2021	
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 13/08/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP(KMV)			
Sample details	Outlet water	Date of collection	13/08/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/08/2021	
Analysis Started On	13/08/2021	Analysis Completed On	18/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 4000ml	

Chemical Testing

Sr. No.	Parameters	Results	Unit	Limits	Method
1.	pH	6.53	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	50.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.90	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	16.00	mg/lit	20.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G
6.	Ammonia	1.68	mg/lit	5.00	APHA(23 rd Edition) 4500 NH ₃ B C
7.	Total Nitrogen (as N)	5.25	mg/lit	10.00	APHA(23 rd Edition) 4500 N-B

Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	58	MPN Index/100ml	100	APHA (23 rd Edition) 9221-E
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Note: Test results related only to the sample tested.

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NDesai

Nandakumar Desai
Analyzed by

Vehopdekar

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Reviewed By



Anandjeep

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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	2020/09/286	16/09/2020	16/09/2021
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	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Mopa(Goa State)(G-A1)					
Average Ambient Temperature (°C)	29.8	Average Humidity (%)	76	Latitude	N 15°45'51.1"	
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	211	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0062	49.15	15.92	<3.00	<6.00	0.06	66.22
2.	06/09/2021	SEE/AR/09/2021/0155	22.17	8.09	<3.00	12.76	0.03	35.67
3.	09/09/2021	SEE/AR/09/2021/0218	34.49	10.26	4.52	8.12	0.05	45.51
4.	13/09/2021	SEE/AR/09/2021/0228	28.96	12.42	<3.00	9.05	0.07	42.78
5.	16/09/2021	SEE/AR/09/2021/0252	25.32	11.26	<3.00	19.17	0.06	38.32
6.	20/09/2021	SEE/AR/09/2021/0405	32.67	22.32	<3.00	11.23	0.05	57.56
7.	23/09/2021	SEE/AR/09/2021/0509	26.54	14.55	6.46	10.96	0.03	41.63
8.	27/09/2021	SEE/AR/09/2021/0572	23.94	11.78	5.53	<9.00	0.05	36.80
9.	30/09/2021	SEE/AR/09/2021/0625	28.32	14.72	<3.00	10.12	0.03	44.58
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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) Dipali Sawant *Dipali Sawant*
Analyzed by

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Reviewed by

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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.2228-DTK-2011)	EI/FF/620	19/02/2021	18/02/2022

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 290-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/630	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Shemeheadvan(Goa State) (G-A2)				
Average Ambient Temperature (°C)	29.9	Average Humidity (%)	78	Latitude	N 15°42'06.1"
Average Wind Speed (km/hr)	1.9	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0063	23.56	16.76	<3.00	9.52	0.05	42.45
2.	06/09/2021	SEE/AR/09/2021/0156	20.68	11.64	<3.00	6.14	0.06	33.56
3.	09/09/2021	SEE/AR/09/2021/0219	18.46	8.43	<3.00	12.59	0.03	28.34
4.	13/09/2021	SEE/AR/09/2021/0229	15.13	6.88	<3.00	10.38	0.05	23.11
5.	16/09/2021	SEE/AR/09/2021/0253	24.18	9.81	4.12	10.43	0.07	36.41
6.	20/09/2021	SEE/AR/09/2021/0406	21.33	13.45	4.26	16.70	0.05	36.65
7.	23/09/2021	SEE/AR/09/2021/0510	23.54	10.24	<3.00	12.58	0.06	34.10
8.	27/09/2021	SEE/AR/09/2021/0573	21.37	8.48	<3.00	9.41	0.07	31.87
9.	30/09/2021	SEE/AR/09/2021/0626	18.23	11.93	8.53	8.89	0.05	30.73
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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. 05-DTK-2011)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550	EI/FF/624	19/02/2021	18/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Nagzar(Goa State) (G-A3)					
Average Ambient Temperature (°C)	28.4	Average Humidity (%)	80	Latitude	N 15°45'37.3"	
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	254	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0064	15.76	6.73	<3.00	7.42	0.03	23.65
2.	06/09/2021	SEE/AR/09/2021/0157	16.27	6.81	<3.00	<6.00	0.06	26.47
3.	09/09/2021	SEE/AR/09/2021/0220	16.84	10.66	<3.00	8.91	0.05	27.83
4.	13/09/2021	SEE/AR/09/2021/0230	18.25	12.48	3.46	15.82	0.07	31.06
5.	16/09/2021	SEE/AR/09/2021/0254	26.56	14.25	<3.00	8.71	0.03	41.66
6.	20/09/2021	SEE/AR/09/2021/0407	11.88	9.36	<3.00	6.32	0.06	22.30
7.	23/09/2021	SEE/AR/09/2021/0511	24.46	11.77	3.87	<6.00	0.05	36.70
8.	27/09/2021	SEE/AR/09/2021/0574	22.97	17.71	<3.00	6.93	0.06	42.60
9.	30/09/2021	SEE/AR/09/2021/0627	19.80	11.68	<3.00	7.52	0.03	32.32
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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.

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2) Dipali Sawant
Analyzed by

Varsha Pole
Reviewed by

Anandeeep 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- 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. 286-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/628	20/02/2021	19/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Purva Casarvarnem (Goa State)(G-A4)					
Average Ambient Temperature (°C)	29.4	Average Humidity (%)	72	Latitude	N 15°41'41.9"	
Average Wind Speed (km/hr)	1.6	Average Wind direction (Deg)	199	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0065	28.23	16.07	<3.00	<6.00	0.05	46.78
2.	06/09/2021	SEE/AR/09/2021/0158	26.24	12.69	<3.00	8.47	0.07	40.12
3.	09/09/2021	SEE/AR/09/2021/0221	20.28	11.45	<3.00	8.23	0.06	32.99
4.	13/09/2021	SEE/AR/09/2021/0231	24.69	16.36	4.31	12.09	0.03	41.66
5.	16/09/2021	SEE/AR/09/2021/0255	18.64	9.54	3.51	13.76	0.05	30.12
6.	20/09/2021	SEE/AR/09/2021/0408	15.82	7.65	4.27	<6.00	0.06	24.89
7.	23/09/2021	SEE/AR/09/2021/0512	13.87	6.49	3.26	10.24	0.03	21.46
8.	27/09/2021	SEE/AR/09/2021/0575	25.44	13.76	<3.00	6.66	0.05	40.15
9.	30/09/2021	SEE/AR/09/2021/0628	22.16	15.39	<3.00	<6.00	0.06	39.03
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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)

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2) Dipali Sawant
Analyzed by

Varsha Pole
Reviewed by

Arandheep 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. 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. 977-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Khajne Amere Porscodem(Goa State)(G-A5)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	71	Latitude	N 15°40'38.0"
Average Wind Speed (km/hr)	1.9	Average Wind direction (Deg)	221	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0066	15.59	9.69	<3.00	<6.00	0.06	26.06
2.	06/09/2021	SEE/AR/09/2021/0159	18.66	10.55	<3.00	<6.00	0.05	30.54
3.	09/09/2021	SEE/AR/09/2021/0222	20.02	8.27	7.60	7.28	0.05	29.13
4.	13/09/2021	SEE/AR/09/2021/0232	30.27	18.53	3.15	8.50	0.03	48.96
5.	16/09/2021	SEE/AR/09/2021/0256	26.31	13.47	<3.00	6.32	0.06	41.53
6.	20/09/2021	SEE/AR/09/2021/0409	20.96	12.48	4.15	9.15	0.03	34.23
7.	23/09/2021	SEE/AR/09/2021/0513	24.14	5.16	<3.00	8.58	0.05	29.66
8.	27/09/2021	SEE/AR/09/2021/0576	33.67	21.21	4.89	8.09	0.06	55.83
9.	30/09/2021	SEE/AR/09/2021/0629	21.28	16.22	<3.00	6.10	0.07	38.58
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)(G-A6)				
Average Ambient Temperature (°C)	29.9	Average Humidity (%)	78	Latitude	N 15°48'40.0"
Average Wind Speed (km/hr)	1.4	Average Wind direction (Deg)	189	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0067	19.69	7.16	<3.00	6.19	0.06	27.56
2.	06/09/2021	SEE/AR/09/2021/0160	24.38	12.32	<3.00	<6.00	0.03	38.11
3.	09/09/2021	SEE/AR/09/2021/0223	17.43	5.90	<3.00	6.89	0.06	25.19
4.	13/09/2021	SEE/AR/09/2021/0233	21.20	11.52	6.21	10.10	0.05	32.89
5.	16/09/2021	SEE/AR/09/2021/0257	15.64	10.09	<3.00	7.42	0.03	26.78
6.	20/09/2021	SEE/AR/09/2021/0410	11.94	5.81	<3.00	<6.00	0.07	19.81
7.	23/09/2021	SEE/AR/09/2021/0514	18.62	8.24	<3.00	9.47	0.06	27.88
8.	27/09/2021	SEE/AR/09/2021/0577	23.81	13.84	<3.00	8.09	0.05	38.22
9.	30/09/2021	SEE/AR/09/2021/0630	26.24	9.42	<3.00	8.22	0.03	37.02
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/ m ³	µg/ m ³	µg/ m ³	mg/ m ³	µg/ m ³
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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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. 298-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 55D MINI	EI/FF/623	19/02/2021	18/02/2022

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Satarda(Maharashtra State)(M-A1)						
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	82	Latitude	N15°43'01.3"		
Average Wind Speed (km/hr)	2.2	Average Wind direction (Deg)	197	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0068	22.22	10.48	<3.00	<6.00	0.05	33.55
2.	06/09/2021	SEE/AR/09/2021/0161	15.60	5.67	<3.00	9.97	0.06	22.63
3.	09/09/2021	SEE/AR/09/2021/0224	25.98	14.68	<3.00	10.88	0.03	41.14
4.	13/09/2021	SEE/AR/09/2021/0234	18.56	8.41	9.11	17.13	0.06	27.34
5.	16/09/2021	SEE/AR/09/2021/0258	20.52	11.26	4.87	12.19	0.05	33.92
6.	20/09/2021	SEE/AR/09/2021/0411	18.31	9.69	5.14	<6.00	0.03	29.16
7.	23/09/2021	SEE/AR/09/2021/0515	11.99	7.41	6.36	<6.00	0.06	19.53
8.	27/09/2021	SEE/AR/09/2021/0578	14.01	6.40	<3.00	7.96	0.07	20.85
9.	30/09/2021	SEE/AR/09/2021/0631	19.13	12.27	<3.00	6.74	0.05	32.03
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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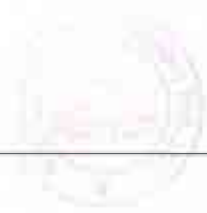
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2) Dipali Sawant

Analyzed by

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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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Dingna (Maharashtra State)(M-A2)				
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	73	Latitude	N 15°46'12.3"
Average Wind Speed (km/hr)	1.7	Average Wind direction (Deg)	208	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0069	21.77	13.21	<3.00	6.68	0.05	35.36
2.	06/09/2021	SEE/AR/09/2021/0162	28.80	16.71	5.47	13.40	0.03	33.25
3.	09/09/2021	SEE/AR/09/2021/0225	19.51	7.85	<3.00	6.68	0.06	27.97
4.	13/09/2021	SEE/AR/09/2021/0235	24.23	17.22	4.50	9.32	0.05	42.34
5.	16/09/2021	SEE/AR/09/2021/0259	29.54	14.58	<3.00	7.04	0.03	46.45
6.	20/09/2021	SEE/AR/09/2021/0412	14.36	5.55	<3.00	<6.00	0.07	20.74
7.	23/09/2021	SEE/AR/09/2021/0516	21.56	13.80	<3.00	8.18	0.05	36.68
8.	27/09/2021	SEE/AR/09/2021/0579	26.73	12.72	<3.00	7.69	0.03	44.26
9.	30/09/2021	SEE/AR/09/2021/0632	23.60	13.18	<3.00	6.37	0.06	38.20
NAAQS Limits*			100	60	80	80	4	-
Units			µg/ m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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Analyzed by

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Reviewed by

Anandeeep 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 BL(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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2021		
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	Sep 2021		

AMBIENT AIR LOCATION

Location of ambient air station	Netarde(Maharashtra State)(M-A3)				
Average Ambient Temperature (°C)	30.1	Average Humidity (%)	75	Latitude	N 15°46'11.7"
Average Wind Speed (km/hr)	1.5	Average Wind direction (Deg)	203	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 ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM
1.	02/09/2021	SEE/AR/09/2021/0070	20.56	11.29	<3.00	10.49	0.06	32.62
2.	06/09/2021	SEE/AR/09/2021/0163	27.14	14.43	4.48	16.64	0.03	44.54
3.	09/09/2021	SEE/AR/09/2021/0226	24.53	15.74	5.80	13.02	0.06	40.40
4.	13/09/2021	SEE/AR/09/2021/0236	17.59	6.27	9.03	14.24	0.07	24.16
5.	16/09/2021	SEE/AR/09/2021/0260	16.82	8.15	4.74	18.22	0.05	27.51
6.	20/09/2021	SEE/AR/09/2021/0413	19.05	13.72	<3.00	<6.00	0.06	33.65
7.	23/09/2021	SEE/AR/09/2021/0517	22.43	8.61	<3.00	<6.00	0.03	32.48
8.	27/09/2021	SEE/AR/09/2021/0580	23.12	10.40	3.50	6.01	0.06	36.26
9.	30/09/2021	SEE/AR/09/2021/0633	20.81	14.76	<3.00	<6.00	0.05	37.12
NAAQS Limits*			100	60	80	80	4	-
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
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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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. 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)	21/11/2020	21/11/2021



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/09/2021/0634	Date of Issue	07/10/2021		
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	30/09/2021	Temperature(°C)	28.2	Humidity (%)	68
Analysis Started On	01/10/2021	Analysis Completed On	07/10/2021		


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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	E/FF/635	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/09/2021/0635	Date of Issue	07/10/2021		
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	30/09/2021	Temperature(°C)	28.2	Humidity (%)	68
Analysis Started On	01/10/2021	Analysis Completed On	07/10/2021		

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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/636	19/02/2021	18/02/2022



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AMBIENT AIR QUALITY MONITORING REPORT					
Report No.	SEE/AR/09/2021/0636	Date of Issue	07/10/2021		
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	30/09/2021	Temperature(°C)	28.2	Humidity (%)	68
Analysis Started On	01/10/2021	Analysis Completed On	07/10/2021		


AMBIENT AIR LOCATION

Location of ambient air station	Shemecheadvan (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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Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	EI/FF/635	19/02/2021	18/02/2022



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NOISE LEVEL MONITORING REPORT

Report No.	SEE/AR/09/2021/0261-0262, 0318-0319, 0415, 0351, 0414, 0560-0561, 0352, 0448-0449	Report Date	29/09/2021
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.	16/09/2021	SEE/AR/09/2021/0261	G-N1	I	Mopa	30.1	79.9	65.4	30.0	81.6	57.8
2.	16/09/2021	SEE/AR/09/2021/0262	G-N2	I	Shemeheadvan	34.6	72.9	55.8	30.1	66.6	52.8
3.	17/09/2021	SEE/AR/09/2021/0318	G-N3	C	Nagzar	31.6	69.9	59.6	32.1	59.0	49.9
4.	17/09/2021	SEE/AR/09/2021/0319	G-N4	R	Purva Casarvarnem	30.0	60.2	48.5	30.0	53.9	39.4
5.	20/09/2021	SEE/AR/09/2021/0415	G-N5	R	Chandel	31.7	69.6	49.7	30.0	58.3	40.2
6.	18/09/2021	SEE/AR/09/2021/0351	G-N6	R	Khajne Amere Porscodem	32.2	64.1	46.6	30.0	54.3	39.4
7.	20/09/2021	SEE/AR/09/2021/0414	G-N7	R	Warkhand	30.1	65.3	47.4	30.0	61.7	38.4
8.	26/09/2021	SEE/AR/09/2021/0560	G-N8	C	Rajvil Wada Torxem	30.0	72.3	59.1	30.9	61.4	47.7
9.	26/09/2021	SEE/AR/09/2021/0561	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvem	30.0	74.8	51.9	34.5	71.3	48.2
10.	18/09/2021	SEE/AR/09/2021/0352	M-N1	R	Satarda	33.5	64.2	47.5	30.0	60.3	39.7
11.	21/09/2021	SEE/AR/09/2021/0448	M-N2	R	Dingna	30.0	72.4	45.2	30.0	53.3	39.3
12.	21/09/2021	SEE/AR/09/2021/0449	M-N3	R	Netarde	31.1	72.1	50.6	30.1	53.5	40.4

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 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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Checked by

Vchopolekar

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Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/139	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

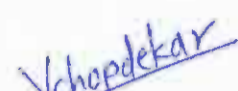
Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.91	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	40.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	10.50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	17.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	10.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	12.8	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Komal Gawas
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.	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



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STAR LAB

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/140	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.06	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	8.40	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	8.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	9.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	27.4	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by


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Anantjeep 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	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



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/141	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandel			
Sample details	Storm Water Outfall 4:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.81	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.30	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	14.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	8.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	26.1	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Komal Gawas
Analyzed by


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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	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



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/142	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	9.20	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	10.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	18.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	4.00	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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Komal Gawas
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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	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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/143	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.65	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.60	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	38.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.80	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	19.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	77.9	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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Komal Gawas
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	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



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/144	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

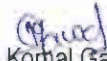
Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.71	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	24.00	mg/lit	APHA(23 rd 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)	19.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O &G
6.	Total Dissolved Solids (TDS)	18.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	9.50	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/145	Issue Date	13/09/2021	
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 06/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28	65
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	06/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	06/09/2021	
Analysis Started On	06/09/2021	Analysis Completed On	13/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.28	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	64.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	18.40	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	6.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	18.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	31.8	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/239	Issue Date	18/09/2021	
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 13/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.3	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 4 at Uguem			
Sample details	Storm Water Outfall 1:	Date of collection	13/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	13/09/2021	
Analysis Started On	13/09/2021	Analysis Completed On	18/09/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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)	35.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	14.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	36.8	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/377	Issue Date	30/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 7 at Amberem			
Sample details	Storm Water Outfall 2:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	30/09/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	68.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	12.75	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	60.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	10.82	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	3.9	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/378	Issue Date	29/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund 8 at Amberem			
Sample details	Storm Water Outfall 3:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	29/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.11	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	<4.00	mg/lit	APHA(23 rd 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)	19.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	10.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	4.9	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/379	Issue Date	29/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Chandel			
Sample details	Storm Water Outfall 4:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	29/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.61	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	64.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	14.40	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	23.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	11	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	91	NTU	APHA(23 rd Edition) 2130-B


Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/380	Issue Date	29/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Varconda			
Sample details	Storm Water Outfall 5:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	29/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.37	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	56.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	12.60	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	33.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.20	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	20.00	mg/lit	APHA(23 rd Edition) 2540-C
6.	Turbidity	0.70	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/381	Issue Date	30/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Bund at Hot Mix Plant			
Sample details	Storm Water Outfall 6:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	30/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

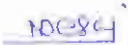
Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.21	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	8.00	mg/lit	APHA(23 rd 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)	51.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.60	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	27.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	134	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/382	Issue Date	30/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outfall at Tulaskarwadi			
Sample details	Storm Water Outfall 7:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	30/09/2021	
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 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	16.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	3.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	76.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	1.40	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	17.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	23.8	NTU	APHA(23 rd Edition) 2130-B

Note: Test results related only to the sample tested.

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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/383	Issue Date	30/09/2021	
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 23/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.1	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	Outlet at Main Gate			
Sample details	Storm Water Outfall 8:	Date of collection	23/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	23/09/2021	
Analysis Started On	23/09/2021	Analysis Completed On	30/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	


Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	7.06	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.60	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	87.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	APHA(23 rd Edition) 5520-O & G
6.	Total Dissolved Solids (TDS)	20.00	mg/lit	APHA(23 rd Edition) 2540-C
7.	Turbidity	133	NTU	APHA(23 rd Edition) 2130-B

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.


Nandakumar Desai
Analyzed by


Varsha Pole
Reviewed By


Ananddeep Sawant
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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-116379

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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/303	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	Borewell 1			
Sample details	Ground Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.91	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.53	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	86.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	142.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	14.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ₂ F
11.	Total Hardness as CaCO ₃	104.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
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

Varsha Pole
Reviewed by

Ananddeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/303	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	17.63	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.30	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	14.57	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	3.10	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	3.50	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Anisha Parab
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Varsha Pole
Reviewed by

Anandeeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/303	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd 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 *Shreya*
2. Anisha Parab *Anisha*
Analyzed by

Vchopdekar
Varsha Pole
Reviewed by

Anandup
Anandup 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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/304	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp ° C	Humidity %
			28.2	66
Sampling point	Borewell No. 2			
Sample details	Ground Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
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); 1983 (RA 2012)
2.	Turbidity	0.70	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	88.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	133.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	16.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ⁻	5.87	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	116.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
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

Vchopledkar
Varsha Pole
Reviewed by

Anandup
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Report No.	SEE/09/2021/304	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	19.23	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.23	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	16.51	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	3.10	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	4.60	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Anisha Parab
Analyzed by

Varsha Pole
Reviewed by

Anandeeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/304	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar
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Shreya Harmalkar
Anisha Parab

Varsha Pole
Reviewed by

Vchopdekar

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/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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/305	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	Borewell 3			
Sample details	Ground Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.22	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.68	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	74.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	113.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	14.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	76.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
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

Varsha Pole
Reviewed by

Ananddeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/305	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	12.02	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	11.17	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	0.187	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	3.40	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	4.70	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

1. Shreya Harmalkar
2. Anisha Parab
Analyzed by

Varsha Pole
Reviewed by

Anandjeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/305	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd 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 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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/302	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	UG-Tank			
Sample details	Treated Water sample	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.93	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.38	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	34.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	65.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as Cl ⁻	13.51	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ ²⁻	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 rd Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	46.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34); 1998 (RA-2014)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Shreya Harmalkar
2. Anisha Parab
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Varsha Pole
Reviewed by

Ananddeep Sawant
Authorized Signatory

Report No.	SEE/09/2021/302	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F ⁻	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C

Metal Analysis

20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	16.03	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	0.03	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	1.44	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	2.12	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	1.0	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/09/2021/302	Issue Date	27/09/2021
Order / Reference	As per dated 20/09/2021	Sample Received On	20/09/2021
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021
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 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar

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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/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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE/09/2021/306	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	P.T.B			
Sample details	Drinking Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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



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ANALYSIS REPORT FOR WATER SAMPLE

Report No.	SEE09/2021/307	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	R.R. Canteen			
Sample details	Drinking Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

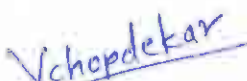
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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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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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/308	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	V.N.C Colony			
Sample details	Drinking Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	


Microbiological Parameters


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

Note: Test results related only to the sample tested.

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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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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/309	Issue Date	27/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling point	L.S.C Colony			
Sample details	Drinking Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	27/09/2021	
Sample Container	Glass bottle	Sample Quantity	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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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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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/298	Issue Date	24/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Inlet Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	24/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

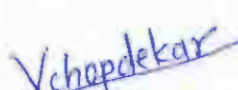
Sr. No.	Parameters	Results	Unit	Method
1.	pH	5.78	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1320.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	349.86	mg/lit	IS 3025 (Part 4)
4.	Total Suspended Solids (TSS)	245.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	12.80	mg/lit	APHA(23 rd Edition) 5520-O &G

Note: Test results related only to the sample tested.

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Vanita Sawant
Analyzed by


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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	26/06/2021	26/06/2022



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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/299	Issue Date	24/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP			
Sample details	Outlet Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	24/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.98	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	128.00	mg/lit	250.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	24.15	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	72.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	4.00	mg/lit	10.00	APHA(23 rd Edition) 5520-O &G

Note: Test results related only to the sample tested.

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Vanita 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	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. 61, Patel Estate, Reis Magos, Verem, Alto, Old Belim Road, Bardez, Porvorim, Panaji-Goa-403 101.
Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

SAVE WATER

SAVE LIFE

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/09/2021/300	Issue Date	24/09/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Inlet Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	24/09/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters


Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.26	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	408.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	115.72	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	139.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	8.40	mg/lit	APHA(23 rd Edition) 5520-O &G

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.


Vanita Sawant
Analyzed by


Varsha Pole
Reviewed By


Anandjeep 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.

☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164

E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-116379

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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Goa State, India. ☎ : (0832) 2411322 / 2411323 • E-mail : stariabgoa@rediffmail.com

SAVE WATER

SAVE LIFE

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ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	SEE/09/2021/301	Issue Date	30/08/2021	
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 20/09/2021	Environmental Condition of Lab	Temp °C	Humidity %
			28.2	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)			
Sample details	Outlet Water	Date of collection	20/09/2021	
Sample Collected by	SEEPL Representative	Sample Received On	20/09/2021	
Analysis Started On	20/09/2021	Analysis Completed On	30/08/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	7.29	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	50.00	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	4.40	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	11.00	mg/lit	20.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA(23 rd Edition) 5520-O & G
6.	Ammonia	2.24	mg/lit	5.00	APHA(23 rd Edition) 4500 NH3B C
7.	Total Nitrogen (as N)	8.75	mg/lit	10.00	APHA(23 rd Edition) 4500 N-B

Microbiological Parameters

8.	Faecal coliforms at 44.5°C for 24 hrs.	14	MPN Index/100ml	100	APHA (23 rd 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.

Vanita Sawant

Anisha Parab

Analyzed by

Varsha Pole

Reviewed By

Anandjeep 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.

☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF. : 310, Dempo Towers, EDC Palto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164

E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • CIN - U45209MH1998PTC-116379

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

**ANNEXURE – 3
FINANCIAL YEAR-WISE ENVIRONMENTAL EXPENDITURE**

Note: All cost expenditures are in INR Crore.

S. N.	Particulars	EXPENSES FY 2018-19 (in INR Crore)	EXPENSES FY 2019-20 (in INR Crore)	EXPENSES FY 2020-21 (in INR Crore)	EXPENSES During April 2021- Sept 2021 (in INR Crore)
1.	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States)	0.002	0.011	0.203	0.192
2.	Dust suppression through tankers & chemical dust suppressants	-	0.021	0.340	0.148
3.	Water sprinkling systems, fog / mist canons	-	-	0.670	0.115
4.	Use of curing agents to conserve water during construction	-	-	0.031	-
5.	Fund deposit to GSBB for compensatory tree afforestation of 5 lac trees	-	0.2	0.4	0.2
6.	Trees cutting, stacking & enumeration	1.5	0.3	0.2	0.026
7.	Translocation of trees within the site with maintenance	-	-	0.451	0.118
8.	Top soil preservation	0.29	-	0.59	-
9.	Labour colony - STP (225 KLD)	-	0.148	0.217	0.036
10.	Labour Colony – STP (50 KLD)	-	-	0.15	0.02
11.	Occupational health surveillance	-	-	0.095	-
12.	CTE Application Fees	-	0.04	-	-
13.	CTO Application Fees	0.009	-	0.065	0.002
14.	Environment Management Cell set up	0.6	0.7	1.1	0.7
15.	Monsoon protection works	-	-	-	0.794
16.	Env. Compliance Monitoring by NEERI	-	-	0.2	0.2
17.	Continuous Ambient Air Quality Monitoring System (CAAQMS)	-	-	-	0.788
18.	Aviation Noise Monitoring Terminal Units (NMT)	-	-	-	1.578
19.	Online Digital Display Unit	-	-	-	0.058
	TOTAL	2.401	1.42	4.712	4.975



ANNEXURE – 4

LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT
As of 30th SEPTEMBER 2021

S.N.	Statutory Permits / Approvals	Date		Statutory Authority	Permit enclosed as
		Issued	Validity		
1.	Stage-1 Forest Clearance for CAT-1 Lighting System	17.06.2021	16.06.2026	MoEF&CC	Appendix-1
2.	Stage-2 Forest Clearance for CAT-1 Lighting System	16.09.2021	-	MoEF&CC	Appendix-2
3.	Consent to Operate (CTO) for 3 rd Hot Mix plant	18.10.2021	19.03.2030	GSPCB	Appendix-3
4.	PESO approval for 25 KL LDO tank for Hot Mix Plant – 1	13.09.2021	-	PESO	Appendix-4
5.	PESO approval for 18 KL LDO tank for Hot Mix Plant – 2	26.10.2021	-	PESO	Appendix-5



Gov.



मत्स्येयं नयते

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, 17th Main Road,
IIInd Block, Koramangala, Bangalore - 560 034.
Tel.No.080-25635905, E.Mail: rosz.bng-mef@nic.in



BY SPEED POST/E-mail

F.No.4-GOB1293/2021-BAN/

Dated the 17th June, 2021

To

The Principal Secretary (Forests),
Government of Goa,
Secretariat Annexe, Secretariat,
Porvorim, Goa -403 521.

Subject: Diversion of 0.2517 ha. of forest land for construction of CAT-I Lighting System of MoPA Airport in Sy.No. 19 of Chandel village, Pernem Taluk, Goa in favour of Directorate of Civil Aviation, Government of Goa -reg.

Sir,

I am directed to refer to the State Government's letter No. 6-856-2021-22-FD.Vol-II/746 dated 18/05/2021 and 11/06/2021 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 0.2517 ha. of forest land in Sy.No. 19 of Chandel village, Pernem Taluk, Goa for construction of CAT-I Lighting System of MoPA Airport in favour of 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 orders of the Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No.202/1995 and the guidelines issued by this Ministry vide its letter No. 5-3/2007-FC dated 05.02. 2009. The requisite funds shall be transferred through online portal into CAMPA account of the State Concerned.
2. Cost of raising plantation (including ten years maintenance) of ten times number of trees to be felled shall be realized from user agency.
3. Location of the area (map with DGPS coordinates) identified for raising the plantations shall be furnished along with compliance report.

Contd.....

4. The User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department and the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.
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 compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).
7. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.
8. The boundary of the diverted forest land shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates.
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 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. A boundary wall of appropriate height along the periphery of the airport separating it from the adjacent forest area shall be erected by the user agency to prevent the wild animals entering into the runway/Airport premises.
4. Tree felling shall be restricted to the barest minimum possible and under confirmation from the local forest officials.
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.

Contd.....

6. No labour camp shall be established on the forest land.
7. 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.
8. No damage to the flora and fauna of the adjoining area shall be caused.
9. The forest land shall not be used for any purpose other than that specified in the project proposal.
10. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
11. The concerned Divisional Forest Officer will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests and wildlife in the area and the MoPA Airport Authority shall provide all logistical support to the forest department in mitigation of such matters."
12. 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.
13. The user agency shall comply with all the provisions of the 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. 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 note 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 sincerely,


(R. Padmawathe)

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, Secretariat, Porvorim, Goa -403 521.
4. Guard file.


(R. Padmawathe)
Deputy Inspector General of Forests (Central)



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& F Wings, 17th 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-GOB1293/2021-BAN/ 623

Dated the 16th September, 2021

To

The Principal Secretary (Forests),
Government of Goa,
Secretariat Annexe, Secretariat,
Porvorim, Goa -403 521.

Subject: Diversion of 0.2517 ha. of forest land for construction of CAT-I Lighting System of MoPA Airport in Sy.No. 19 of Chandel village, Pernem Taluk, Goa in favour of Directorate of Civil Aviation, Government of Goa -reg.

Sir,

I am directed to refer to the Dy. Conservator of Forests, Monitoring & Evaluation, Forest Department, Government of Goa's letter No. 6-856-2021-22-FD.Vol-II/746 dated 18/05/2021 and 11/06/2021 seeking prior approval of the Central Government in accordance with Section'2' of the Forest (Conservation) Act, 1980 in respect of the above project.

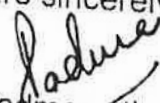
The in-principle (Stage-I) approval to the project was accorded by the Central Government vide letter of even number dated 17th June, 2021. The State Forest Department vide letter No. 6-856-2021-22-FD.Vol-II/2126 dated 13/08/2021 and 01/09/2021 had reported compliance to the conditions stipulated by 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 approval (Stage-II) under Section'2' of Forest (Conservation) Act, 1980 for diversion of 0.2517 ha. of forest land in Sy.No. 19 of Chandel village, Pernem Taluk, Goa for construction of CAT-I Lighting System of MoPA Airport in favour of Directorate of Civil Aviation, Government of Goa subject to the following conditions:-

1. The legal status of forest land shall remain unchanged.
2. The boundary of the diverted forest land shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates.
3. Planting of ten times the number of trees to be felled shall be carried out at the cost of User Agency & location of planting be intimated to this office.
4. The KML file of the area diverted and plantation taken up in lieu of felling of trees shall be uploaded in the e-green watch portal with all requisite details.
5. The 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 Adhoc CAMPA Account.

6. A boundary wall of appropriate height along the periphery of the airport separating it from the adjacent forest area shall be erected by the user agency to prevent the wild animals entering into the runway/Airport premises.
7. Tree felling shall be restricted to the barest minimum possible and under confirmation from the local forest officials.
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 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.
11. No damage to the flora and fauna of the adjoining area shall be caused.
12. The forest land shall not be used for any purpose other than that specified in the project proposal.
13. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
14. The concerned Divisional Forest Officer, will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area.
15. 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.
16. The user agency shall comply with all the provisions of the 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.
17. The total forest area utilized for the project shall not exceed 0.2517 ha.
18. 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.
19. Violation of any of the conditions shall invite penal action, as deemed fit by the Additional Principal Chief Conservator of Forests (Central), Regional Office, Bangalore.

Yours sincerely,


(R. Padmawathe)

Deputy Inspector General of Forests (Central)

2/c

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.

Padma

(R. Padmawathe)
Deputy Inspector General of Forests (Central)

O/c
18/11/2021

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001:2015, ISO 14001:2015, ISO OHSAS 45001:2018 Certified Board)

Phone Nos : 0832- 2407700,
2407701, 2407702
Tel/Fax No: 0832- 2407700



Email Ids:
Chairman, GSPCB, chairman-gspcb.goa@nic.in
Member Secretary, GSPCB, ms-gspcb.goa@nic.in
Environment Engineer, GSPCB, ee-gspcb.goa@nic.in
Scientist, GSP/CB, scientist-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No. 12/2021-PCB/1064505/O0008321

Date: 18 /10/2021

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation under Rule 6(i) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules as amended in 2018.

[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

CONSENT AND AUTHORIZATION TO OPERATE is hereby granted to:

**M/s. MEGAWIDE CONSTRUCTION DMCC
(TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)
(Represented by: Shri Prabhat Satpathy),
(Orange Category)
(Expansion of the Unit)**

P.O. Box No.1, Greenfield International Airport, Pernem – Goa, 403512

Located in the area declared under the provisions of the Water Act & Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. This Consent to operate and authorization is valid upto **19/03/2030.**

2. This Consent to operate and authorization is valid for the activity of:

Sr. No	Product	Quantity
1.	Hot Mix Plant	01 No. (100 TPH)

3. **CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:**

(i) The daily quantity of industrial effluent from the unit shall not exceed **NIL.**

(ii) The daily quantity of domestic effluent from the unit shall not exceed **2.0KLD.**

(iii) **Domestic Effluent treatment and Disposal:-**

The domestic wastewater shall be treated in a properly designed septic tank and discharged on land for percolation through soak pit of adequate size within the unit's premises.

(iv) **The unit should empty septic tank and soak pit periodically through night soil tankers for safe disposal and submit the copies of the receipts to the Board on regular basis.**

(v) A good house-keeping shall be maintained within the unit's 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.

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 ₂ Kg/Hr	NO _x	HC	CO	PM
1.	D.G. set	01	500KVA	2.1	9.2	1.3	3.5	0.3
2.	D.G. set	01	380KVA	1.6	9.2	1.3	3.5	0.3

Sr. No.	Name of Equipments/ Installation	No of Installation	Capacity	SO ₂ Kg/Hr	Particulate Matter Mg/Nm ³
1.	Hot Mix Plant	01	100TPH	1.62	150

(ii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1.	D.G. Set (500KVA)	05 meters
2.	D.G. Set (380KVA)	05 meters
3.	Hot Mix Plant	14 meters

(iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	H. S. D (for DG Set of (500KVA)	105 litres/hr.
2.	H. S. D (for DG Set of (380KVA)	80 litres/hr.
3.	L. D. O. (for 100 TPH Hotmix plant)	25 litres/hr

(iv) 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.

(v) 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 result shall be submitted to this Board.

(vi) **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.**

(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:

- (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	1000ltrs/annum	To recycler registered with CPCB 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 application by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous and other Wastes (Management and Transboundary Movement) Rules 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCMMS system.
- (xii) **The occupier shall furnish annual returns for collection, storage and disposal of hazardous waste in Form 4 by 30th June of every year for the preceding period April to March.**

(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.

5 GENERAL CONDITIONS:

- (i) 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 and authorization is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force. **The Consent to Operate is confined to matters arising out of the Air Act and Water Act only.**
- (vi) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (vii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (*Second Amendment*) Rules, 1992.
- (viii) Reliable flow meter shall be installed to maintain record of water consumption/waste water generation per day. The records so maintained shall be made available to the Board officials whenever required.
- (ix) The shall bear the cost of analysis / monitoring in case of complaints received by the Board / reinspections due to non compliances observed by the Board & monitoring carried by the Board.
- (x) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (xi) The unit shall submit returns for disposal of batteries under the Batteries (*Management & Handling*) Rules 2001, if applicable.
- (xii) The unit shall submit returns for disposal of e - waste under the E- Waste (*Management*) Rules 2018, if applicable.
- (xiii) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (*Management*) Rules 2018, if applicable.

(xiv) 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

To,
M/s. MEGAWIDE CONSTRUCTION DMCC
(TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)
(Represented by: Shri Prabaht Satpathy),
P.O. Box No.1, Greenfield International Airport, Pernem – Goa, 403512

Copy to:-
1 Accounts Section
2 Concerned File
3 Guard File

Received Consent fee of: **The capital Investment of the unit is Rs. 3,20,00,000/-**

Challan no.	Amount	Date
1079538	Rs. 1,57,067/- (Air and Water & Hazardous Consent fees)	07/10/2021

SANJEEV Digitally signed
by SANJEEV
JOGLEK JOGLEKAR
AR Date:
2021.10.18
15:55:14 +05'30'

(Sanjeev Joglekar)
Senior Environmental Engineer
Goa State Pollution Control Board

CUSTOMER FEEDBACK



भारत सरकार

Government of India

वाणि और उ ग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा वि टक सुरा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

ए-1 और ए-2 विंग, पाँचवा तल, की य कार्यालय पर सर, सी.बी.डी. बेलापुर

नवी मुंबई (महा.)- 400614

A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.),
Mumbai - 400614

E-mail : jtccemumbai@explosives.gov.in

Phone/Fax No : 022 - 27575946,27573881

दिनांक /Dated : 13/09/2021

Only Approval (no Licence)

फ्रीस . /Fees : Rs. 2000 /- (अनुमोदन) Approval for permission

सां /No. : A/P/WC/GA/15/11 (P512530)

सेवा
म.
/To,

**M/s. M/S. MEGAWIDE CONSTRUCTION DMCC,
P.O Box No 1, Greenfield International Airport, M,
Pernem,
Taluka: Pernem,
District: NORTH GOA
State: Goa
PIN: 403512**

विषय
/Sub पेट्रोलियम वर्ग "ग" के भंडारण संदर्भ में.

Storage of Petroleum not exceeding 25 KL Class C.

महोदय
/Dear
Sir(s),

कृपया आपके उपयुक्त विषय से संबंधित पत्र सां - दिनांक 08/09/2021 का संदर्भ ग्रहण करें।

Please refer to your letter No - dated 08/09/2021.

पेट्रोलियम नियम, 2002 के अंतर्गत नियम 140 के अधिन आपके Survey No, 262, 263, 264, P.O Box No 1, Greenfield International Airport, Mopa, Nagzar, Pernem, Goa, 403512, Mopa, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 पर सर में 25 KL किलोलीटर पेट्रोलियम वर्ग "ग" Consisting of 25 KL in 1 Above Ground Tanks के भंडारण संबंधी सूचना नोट की गई है. संबंधित अरेखण की प्रतिलिपि इस कार्यालय की मोहर के साथ संलग्न है. कृपया नोट करें कि अगर पेट्रोलियम वर्ग "ग" Class C का किसी एक समय भंडारण 45 KL किलोलीटर से अधिक होता है तो आपको इस कार्यालय से अनुमति प्राप्त करनी होगी. आपके इलाहेशन को लागू पेट्रोलियम नियम, 2002 के आध्याय VI में किए गए अध्यायों का कड़ाई से पालन करें.

Your intimation under Rule 140 of Petroleum Rules 2002 regarding storage of 25 KL of Class C Consisting of 25 KL in 1 Above Ground Tanks in your factory premises at Survey No, 262, 263, 264, P.O Box No 1, Greenfield International Airport, Mopa, Nagzar, Pernem, Goa, 403512, Mopa, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 is noted and a copy of drawing bearing this office stamp is enclosed. In case of any addition/alteration, revised drawings/documents may be submitted to this office for reissue of the permission. Please note that you will have to take out a Licence if storage of Class C exceeds 45 KL at any one time. This provisions of Chapter VI of Petroleum Rules, 2002 as applicable to your installation should be strictly observed.

फिर भी, यह अनुमोदन/अनुमति अन्य अधिकारियों से आवृत्त अनुमति/परन्तु करने से या यथा लागू अन्य विधियों से छूट

नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

Yours faithfully,

((डा.विवेक कुमार)
(Dr Vivek Kumar)
विस्फोटक नियंत्रक
Controller of Explosives
कृते संयुक्त मुंबई विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)/Mumbai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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भारत सरकार

Government of India

वाणि और उ ग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा वि टक सुर ा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

ए-1 और ए-2 विंग, पाँचवा तल, की य कार्यालय पर सर, सी.बी.डी. बेलापुर

नवी मुंबई (महा.)- 400614

A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.),
Mumbai - 400614

E-mail : jtccemumbai@explosives.gov.in

Phone/Fax No : 022 - 27575946,27573881

दिनांक /Dated : 26/10/2021

Only Approval (no Licence)

फ्रीस . /Fees : Rs. 2000 /- (अनुमोदन) Approval for permission

सां /No. : A/P/WC/GA/15/13 (P512581)

सेवा
म.
/To,

M/s. M/S. MEGAWIDE CONSTRUCTION DMCC,
P.O Box No 1, Greenfield International Airport, M,
Pernem,
Taluka: Pernem,
District: NORTH GOA
State: Goa
PIN: 403512

विषय

/Sub पेट्रोलियम वर्ग "ग" के भंडारण संदर्भ में.

:

Storage of Petroleum not exceeding 18 KL Class C.

महोदय
/Dear
Sir(s),

कृपया आपके उपयु विषय से संबंधित प सां **OIN903254** दिनांक 21/10/2021 का संदर्भ हण करें।

Please refer to your letter No **OIN903254** dated 21/10/2021.

पेट्रोलियम नियम, 2002 के अंतर्गत नियम 140 के अधिन आपके Survey No, 262, 263, 264, AT VILLAGE - MOPA TAL & DIST.- NORTH GOA, GOA., --Select--, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 थ त पर सर में 18 KL किलोलीटर पेट्रोलियम वर्ग "ग" Consisting of 18 KL in 1 Above Ground Tanks के भंडारण संबंधी सूचना नोट की गई है. संबंधित आरेखण की तिलिपि इस कार्यालय की मोहर के साथ संल है. कृपया नोट करें कि अगर पेट्रोलियम वर्ग "ग" Class C का किसी एक समय भंडारण 45 KL किलोलीटर से अधिक होता है तो आपको इस कार्यालय से अनु प्ति ा प्त करनी होगी. आपके इा लेशन को लागु पेट्रोलियन नियम, 2002 के आ य VI में किए गए ा वधानों का कडाई से पालन करें.

Your intimation under Rule 140 of Petroleum Rules 2002 regarding storage of 18 KL of Class C Consisting of 18 KL in 1 Above Ground Tanks in your factory premises at Survey No, 262, 263, 264, AT VILLAGE - MOPA TAL & DIST.- NORTH GOA, GOA., --Select--, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 is noted and a copy of drawing bearing this office stamp is enclosed. In case of any addition/alteration, revised drawings/documents may be submitted to this office for reissue of the permission. Please note that you will have to take out a Licence if storage of Class C exceeds 45 KL at any one time. This provisions of Chapter VI of Petroleum Rules, 2002 as applicable to your installation should be strictly observed.

फिर भी, यह अनुमोदन/अनुमति अन्य ा धिकार यों से आव क अनुमतिी यरन्स ा प्त करने से या यथा लागू अन्यभ विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

Yours faithfully,

((डा.विवेक कुमार)
(Dr Vivek Kumar))
वि० टक नियंत्रक
Controller of Explosives
कृते संयु० मु० वि० टक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)/Mumbai

(अधिक जानकारी जैसे आवेदन की थ ति, शु० तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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