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Τo,

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

Date: 16<sup>th</sup> May 2022 Ref: GGIAL/MoEF&CC-EC/2022-2023/0990

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 October 2021 to March 2022.

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

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

3. Addendum to Original EC dated 13<sup>th</sup> March 2020

#### 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 October 2021 to March 2022. 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, Jor Bagh Road, 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

**Corporate Office:** New Udaan Bhawan, Opp. Terminal -3, Indira Gandhi International Airport, New Delhi - 110 037

#### HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: October 2021 to March 2022)



#### Environmental Clearance Compliance Status Report Of Greenfield International Airport at Mopa, Goa

With reference to MoEF&CC's EC Letter No: F.No.10-29/2011-IA.III dated 28.10.2015 Addendum to EC Conditions dated 13.03.2020



#### **GMR GOA International Airport Limited**

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

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		Point-wise compliance	
No.	Reference No.	Conditions	Compliance
Conditi	ons of EC dat	ed 28/10/2015	5
1.	4 (A) (i)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Renewal of 'Consent to Establish' has been obtained from Goa State Pollution Control Board (GSPCB), vide Letter No. 12/2019-PCB/299315/R0002481 dated 29/01/2020 with validity for 3 years. Project is under development phase. infrastructures are being developed to meet the compliance requirements.
2.	4 (A) (ii)	The Project Proponent shall ensure availability of adequate land at the junction of the Mopa Airport road and Mumbai /Goa NH-17 for traffic circulation/management and to provide for all the traffic interchanges and proposed clover leaf.	
3.	4 (A) (iii)	The approach and exit roads to the Airport shall be approved from the NHAI and should be according to IRC norms.	Noted. Ministry of Road Transport & Highways (MoRTH), Government of India (GoI) has notified the approach road connectivity to airport as a National Highway (NH) No. 166S, vide Gazette Notification dated 23-09-2020. The construction work has begun by MoRTH & being executed through State PWD, GoG.
4.	4 (A) (iv)	A perusal of the Topo sheet superimposed on the runway area indicates that the extreme end of the runway is covering the	1





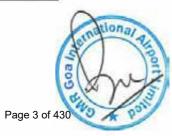
No.	Reference No.	Conditions	Compliance
		drainage area partly. The drainage area which is under the runway shall be channelized. The area between the parallel taxiway and runway shall be handled carefully to drain the water from the area in the outfall 2.	been approved by Water Resources Department, (WRD), GoG. Channelization of storm water in- between Runway and Parallel Taxiway is being carried out to drain the water in the outfall 2.
5.	4 (A) (v)	The PP shall submit the site clearance certificate from Directorate General of Civil Aviation (DGCA), before commencement of work at the project site.	Submitted and Complied. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
6.	4 (A) (vi)	Sewage and other liquid effluent generated from the airport including from the existing terminal should be treated according to the norms laid down by the State Pollution Control Board. The treated sewage shall be recycled for flushing/ gardening. Proper dual plumbing shall be provided.	STP outlet standards prescribed by GSPCB in the CTE are being considered for the STP design, will be addressed and complied with during operational phase of airport. The treated sewage shall be recycled for flushing / gardening. Proper dual plumbing shall be provided. The design of 625 KLD STP has been finalized and construction work is in progress.
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





GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		passengers and also at the cafeterias as to reduce generation of solid wastes including PET bottles.	compliance with given conditions are being built.
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	Being Complied. As per the revised categorization of DG sets by CPCB, the stand alone DG sets having capacity less than 1000 KVA do not require 'consent to operate' by GSPCB. Project is in construction phase. Presently, DG Sets at construction site are of less than 1000 KVA capacity. These DG sets are provided with adequate stack height and acoustic- enclosures. Stand by DG Sets 2000 KVA X 3 proposed for operation phase will comply to CPCB guidelines.
9.	4 (A) (ix)	Parking provision shall be provided according to the National Building Code of India, 2005.	Noted. Compliance shall be ensured.
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. Compliance shall be ensured.



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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 Water Resources Department (WRD), Goa.
			(Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
12.	4 (A) (xii)	The land use around the Airport complex shall be regulated through a plan to control unauthorized development which may create problems in the operation of Airport.	Mopa Airport Development Authority (MADA) is the designated regulatory body to control the unauthorized development around the Airport complex. GGIAL has communicated to MADA vide letter dated 24/02/2021 for land use regulation around airport complex.
13.	4 (A) (xiii)	The wastewater from hangers shall be tested for presence of heavy metals, if any, and shall be treated in STP. The treated wastewater shall be used for gardening/ flushing.	Noted. Compliance will be ensured during operational phase of airport. Currently, construction of STP is in progress.
14.	4 (A) (xiv)	Rain water harvesting shall be provided to recharge the ground water.	Noted. Compliance will be ensured. 'Rain water Harvesting Plan/Report' has been prepared. Infrastructure is being built.
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	Noted. Compliance shall be ensured during operational phase.





GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		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.	
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.	Noted. Compliance shall be ensured. Compliance to the mitigation measures in Matrix Format is attached as <b>Annexure - 1</b> .
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	Noted. Compliance shall be ensured.
19.	4 (A) (xix)	Project Proponent shall install noise level display system. Noise level shall be monitored regularly in all seasons (different meteorological conditions) within the compound as well as nearby habitations and it shall be ensured that the noise level is within the prescribed limits. During night time the noise levels measured at	Noted. Compliance shall be ensured. Currently, project is in construction phase and ambient noise levels monitoring are being conducted by MoEF&CC approved and NABL



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GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		the boundary shall be restricted to the permissible levels to comply with the prevalent regulations.	accredited Environmental Laboratory. Noise level monitoring reports are enclosed as <b>Annexure-2</b> .
20.	4 (A) (xx)	The location of monitoring stations and monitoring of noise level during day and night shall be in accordance with the CPCB guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 <sup>th</sup> June, 2008.	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 prepared and being implemented.
22.	4 (A) (××ii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the SPCB.	Being Complied. Hazardous waste is being given to SPCB authorized recyclers.
23.	4 (A) (xxiii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Noted. EC had been obtained from MoEF&CC 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 environmental safeguards under the supervision of a Senior Executive.	Complied. Environmental Management Cell has been set up under the supervision of a Senior Executive designated as VP & Head – EHS & Sustainability.
25.	4 (A) (xxv)	Corporate Environment Responsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	Complied. Environment Policy is in place.

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



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### Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
29.	4 (B) (iv)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Being Complied. Entire quantity of excavated earth work is being used for filling & levelling within the site premises.
30.	4 (B) (v)	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environment (Protection Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required clearance from Chief Controller of Explosives shall be taken.	Being Complied. Low Sulphur diesel is being used. Clearance from Chief Controller of Explosives has been obtained for storage of Diesel during construction phase.
31.	4 (B) (vi)	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Being Complied. Vehicles bringing construction materials are using National Highway (NH) and State Highway (SH) roads, to reach out to Mopa project site. There is no restriction imposed w.r.t. peak and non- peak hours for NH and SH roads by Central Govt. & State Govt. All construction vehicles carry Pollution Under Check (PUC) certificate. (Sample is enclosed in <b>Annexure-1</b> ).
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 <sup>th</sup> August, 2003.	Being Complied. Fly ash is being used in Ready Mixed Concrete (RMC).
33.	4 (B) (viii)	Ready mixed concrete must be used in building construction.	Being Complied.

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# Half Yearly EC Compliance Report (October 2021 to March 2022)

**GMR Goa International Airport Limited** 

No.	Reference No.	Conditions	Compliance
			All the buildings/rigid pavements are being constructed with RMC only.
34.	4 (B) (ix)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Being Complied. Considered in the engineering design, vetted by IIT Mumbai.
35.	4 (B) (x)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Being Complied. Curing agents are being used. All concrete works are being done with pre-mixed concrete i.e. RMC only.
36.	4 (B) (xi)	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Compliance is being ensured. The buildings are incorporated with dual plumbing system.
37.	4 (B) (xii)	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Compliance is being ensured. The glazing work in PTB and ATC tower buildings are being executed with double glass unit.
38.	4 (B) (xiii)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Compliance is ensured. Execution is being carried out as per ECBC/IGBC Guidelines with thermal insulation having required Solar Reflective Index (SRI). Passenger Terminal Building (PTB) has been accorded with Provisional Certificate - IGBC Platinum Standard from CII.
39.	4 (B) (xiv)	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-	Compliance is ensured. Execution is done as per ECBC/IGBC Guidelines.

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	
40.	4 (B) (xv)	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Noted. Compliance, as applicable for safe operation of airport, will be ensured.
41.	4 (B) (xvi)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Noted. Compliance will be ensured in consultation with GoG.
42.	4 (B) (xvii)	The construction of the structures shall be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and central rules and regulations.	Noted. Compliance is ensured. Construction License has been obtained from MADA.
43.	4 (B) (xviii)	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	Being Complied. Statutory approvals of approved quarries from where construction materials are being sourced are submitted, (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021- 2022/0688 dated 24 <sup>th</sup> May 2021).
44.	4 (B) (xix)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Being Complied. Details are submitted in <b>Annexure-1</b>
45.	4 (B) (xx)	Full support shall be extended to the officers of this Ministry/Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and	Noted.

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No.	Reference No.	Conditions	Compliance
		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.	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 October 2021 to March 2022 are enclosed in <b>Annexure – 2</b> .
47.	4 (B) (xxii)	Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing, ones, if necessary in the interest of environment and the same shall be complied with.	Noted.
48.	4 (B) (xxiii)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted.
49.	4 (B) (xxiv)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	Noted.
50.	4 (B) (xxv)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<ol> <li>Financial Closure for the project has been achieved on 7<sup>th</sup> July 2017.</li> <li>The approval of the project obtained from Director General of Civil Aviation (DGCA), GoI, New Delhi vide their letter no. AV.20024/17/00- AL dated 27<sup>th</sup> July 2017.</li> </ol>

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GMR Goa international Airport Limited

No.	Reference No.	Conditions	Compliance
			<ol> <li>Land development work has already been started (Letter submitted to Regional office of MoEF&amp;CC vide letter no. GGIAL/MoEF&amp;CC/ 2018/0194 dated 26<sup>th</sup> February 2018).</li> </ol>
			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 13 <sup>th</sup> August 2020.
51.	4 (B) (xxvi)	A copy of the clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	Complied.
52.	4 (B) (xxvii)	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office / Tehsildar's office for 30 days.	Complied.
53.	4 (B) (xxviii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Noted. Being complied. Environmental expenditures during Financial Year 2021-22 is enclosed as <b>Annexure – 3</b> .

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
54.	5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	Noted. Relevant environmental acts and rules are being complied with.
55.	6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Being Complied. Necessary approvals from the concerned authorities are being obtained as applicable. List of various statutory clearances / permits /approvals related to Environment, obtained or applicable to the airport project are submitted (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC- EC/2021-2022/0835 dated 18 <sup>th</sup> November 2021)
56.	7	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the	Complied.

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
		Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry.	
57.	8	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No .460 of 2004 as may be applicable to this project.	Noted.
58.	9	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	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.
60.	11	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Compliance being ensured.
Additio	nal NGT Cond	litions vide NGT order dated 21/08/2018 Air Environment	
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Un-burnt and Hydro	Being Complied.

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# Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		Carbons (HC), Lead (Pb), CO <sub>2</sub> , SO <sub>2</sub> , CO <sub>2</sub> , SOOT and Oxides of Nitrogen (NOx) during operation phase are going to be major pollutants in this kind of project. Besides, fugitive emissions of Volatile Organic Compounds (VOC) during fuel handling can be another issue for ambient air environment. The provision of only 6 (six) Air Quality Monitoring Stations is inadequate as sampling duration has been given as 'twice a week, 4 weeks in a season as per CPCB standards for NAAQM, 1994. It would be appropriate if the Project Proponent establishes real time online continuous Air Quality Monitoring Station also which is connected to CPCB server and capable of monitoring all relevant and critical parameters and mitigation measures taken.	Currently in the construction phase of the project, Environmental Quality Monitoring of Suspended Particulate Matter (SPM), PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOx, CO are being conducted. The AAQ Monitoring report is enclosed as <b>Annexure-2</b> . Total VOC Monitoring being conducted within the Mopa Airport premises and the test report are enclosed in <b>Annexure-2</b> . Real time online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed at GSPCB approved location. The same is under commissioning and trial phase.
62.	2	Although all parameters w.r.t ambient air parameters have been found to be within limits for all 6 (six) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient air in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of AAQ monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as <b>Annexure - 2</b> .
	В	Water Environment	
63.	1	Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other	Noted. Compliance shall be ensured. The rain water harvesting plan has been revised and also approved by Water

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# Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
		pits at such locations so as to capture all the excess drainage for water re-charge.	Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
			(Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
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 reports are enclosed in Annexure-2.
	С	Noise Environment	
65.	1	It has been proposed that ambient noise levels shall be monitored around the premises of airport, near DG sets and at main 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 are being conducted by MoEF&CC approved Environmental Laboratory. Monitoring reports are enclosed in the <b>Annexure-2</b> .
66.	2	Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.	Noted. Compliance shall be ensured during operational phase.
67.	3	Although ambient noise levels have been found to be within limits at 9 (nine) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient noise levels	Complied. Report of Noise levels monitoring conducted at additional 3





# Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
		in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	locations in the State of Maharashtra is enclosed as <b>Annexure-2</b> .
	D	Land Environment	
68.	1	There is a potential for impact on soil quality due to project related spills and leaks of fuel and chemicals and uncontrolled disposal of wastes and waste water. Adequate care be taken to avoid spills and leaks of hazardous substances and all project related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	Being Complied. Secondary containment of adequate capacity is constructed at bulk bitumen and LDO storage tanks.
69.	2	Debris and Muck Management Plan to be prepared and implemented so as to avoid spillage of muck and debris on the slopes.	Being Complied. Plan is prepared and being implemented.
70.	3	Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.	Noted. Compliance ensured as per 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. Efforts have been made to translocate 500 nos. of trees within site premises.





No.	Reference No.	Conditions	Compliance
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 has been negated by the respondent by producing a documentation of Botanical Survey of India, Western Regional Centre, Pune, Maharashtra titled as "A Note on Occurrence and Distribution of Dipcadi concanense". By invoking Precautionary Principle, we direct the Project Proponent to draw up a Conservancy by Plan/Scheme for 'Dipcadi concanense' in collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.	Complied.
	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 being implemented. Emergence response drills are being conducted and 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 an Disaster Management Plan' for th construction phase of the project prepared and being implemented Emergency response drills are bein conducted at construction site.





GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
Addend	lum to EC dat	ed 23 <sup>rd</sup> March 2020	
	I	Statutory compliance	
77.	(i)	The project proponent shall obtain certificate from Chief Wildlife Warden (CWLW) of State through State Government that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) and no activity prohibited in the Eco-sensitive zone will be taken up.	Submitted & Complied. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
78.	(ii)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Complied. Consent to Establish has been obtained from GSPCB. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
79.	(iii)	The project proponent shall obtain necessary permission from the competent authority for drawal of water from Tillari Irrigation Canal.	Complied. Permission has been obtained from WRD, GoG. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 <sup>th</sup> May 2021).
	II	Air quality monitoring and preservation	
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. $PM_{10}$ and $PM_{2.5}$ in reference to PM emission, and $SO_2$ and NOx in reference to $SO_2$ and NOx	Being Complied, Currently in the construction phase of the project, Environmental Monitoring of Suspended Particulate Matter (SPM), PM <sub>10</sub> , PM <sub>2.5</sub> ,



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a.

# Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		emissions) within and outside the airport area covering upwind and downwind directions.	SO <sub>2</sub> , NOx and CO are being conducted. The AAQ Monitoring report is enclosed as <b>Annexure - 2</b> .
81.	(ii)	Notification GSR 94 (E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	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. Considered in the design of storm water drainage system. Drainage plan has been revised and also approved by WRD, GoG.
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. Requirement is considered in the drainage design, which is approved by WRD, GoG.
88.	(iii)	Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area.	Compliance shall be ensured. Requirement is considered in the design.

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance
		Domestic and industrial waste water shall not be allowed to be discharged into the storm water drains and directed to STP for treatment.	Currently, STP is under construction. Entire waste water generated will be treated in STP and will be further reused.
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. Requirement is considered in the design. Execution will be done in line with the approved 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. Requirement 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. Requirement is considered in the design. Rain Water Harvesting structures are under construction.
	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.





#### Half Yearly EC Compliance Report (October 2021 to March 2022)

Reference Conditions No. Compliance No. Noise level survey shall be carried as per the prescribed guidelines 95. (ii) Being Complied. and report in this regard shall be submitted to Regional Officer of Noise levels monitoring is being the Ministry as a part of six-monthly compliance report. conducted and monitoring report is enclosed in Annexure - 2. Noise from vehicles, power machinery and equipment on-site (iii) Being Complied. 96. should not exceed the prescribed limit. Equipment should be DG sets are installed with acoustic regularly serviced. Attention should also be given to muffler enclosures. Random workplace noise maintenance and enclosure of noisy equipment's. levels monitoring is carried out and monitoring reports are enclosed in the Annexure-2. Acoustic enclosures for DG sets, noise barriers for ground-run bays, Noted, Compliance shall be ensured, 97. (iv) ear plugs for operating personnel shall be implemented as DG sets are installed with acoustic mitigation measures for noise impact due to ground sources. enclosures. Necessary PPEs are provided. During airport operation period, noise should be controlled to Noted. Compliance shall be ensured (v) 98. ensure that it does not exceed the prescribed standards. During during operational phase. 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. Where construction activity is likely to cause noise nuisance to Noted. Being Complied. (vi) 99. nearby residents, restrict it to only during day time i.e. between 7 am to 6 pm. V **Energy Conservation/climate change measures** Noted, Compliance is being ensured. (i) Energy conservation measures like installation of LED should be 100. integral part of the project design and should be in place before project commissioning. Noted. Compliance shall be ensured. (ii) Initiatives such as Green Infrastructure Development program, 101. adoption of less emission intensive technologies, renewable energy The requirements of Green Infrastructure Development program, program, electrical vehicles and Airport Carbon Accreditation need

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# Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		to be adopted to reduce its impact on climate change and Green House Gas (GHG) emissions as per environmental best practices governing greenfield airports.	adoption of less emission intensive technologies, renewable energy program and electrical vehicles are considered in the design. Airport Carbon Accreditation 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.
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.
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.
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.	

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
	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, as applicable for safe operation of airport, will be ensured.
108.	(ii)	The plantation species in and around Airport site should be carefully chosen to avoid bird nesting and to improve pollution control and noise control measures. Water intensive and/or invasive species should not be used for landscaping.	Noted. Compliance 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.
110.	(iv)	The proposed 10 times compensatory plantation need to be monitored by the Government of Goa so that the target of planting 5.5 lakh saplings is achieved in a time bound manner, their survival rate is monitored and mortality is replenished. As major chunk of 2.5 lakh of saplings is proposed to be done by the village level Bio Diversity Committees, it is necessary to ensure that people are largely given native species and/or fruit bearing saplings so that they will be able to derive economic benefits from such fruit crops	Compliance is being ensured in collaboration with GoG. GGIAL has 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



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# Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

No.	Reference No.	Conditions	Compliance
		and also such trees will provide better biological environment to birds.	of plantation areas was also done by GSBB & GGIAL.
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Being Complied. The excavated top soil was stored at designated locations within the site and currently the same is being utilized for the landscaping and horticulture purposes.
_	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 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 implemented for the construction phase of the project.
115.	(iv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. Labor 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.

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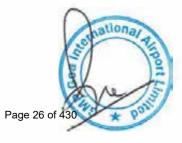
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# Half Yearly EC Compliance Report (October 2021 to March 2022)

No.	Reference No.	Conditions	Compliance			
		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 submitter to SCI, infrastructure required for th			
			Zero Carbon program during operation			
			phase is considered in the design ar will be implemented during the			
			operational phase of the Airport as po 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 appointe			
			NEERI reviewed the EC compliance of			
			27th December 2021. Further, NEE			
			inspected the airport project site ar			
			reviewed the compliance during 21st			
			25 <sup>th</sup> March 2022.			





#### ANNEXURE - 1

#### ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS AS OF MARCH 2022

S. No.	o. Mitigation measures Compliance status					
	Mitigation measures for Air Environment durin	ng Construction Phase				
01	Ensure preventive maintenance of vehicles and equipment.	Being Complied. Sample copy of Checklist f Maintenance is enclosed as <b>Annexure-1 (A)</b> .				
02	Ensure vehicles with valid Pollution under Control certificates are used.	Being Complied. Sample copy of PUC certificate enclosed as <b>Annexure-1 (B)</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 <b>Annexure- 1 (C)</b> .				
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 <b>Annexure-1 (D)</b> .				
	Mitigation measures for Water Environment du	ring 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.				

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# Half Yearly EC Compliance Report (October 2021 to March 2022)

GMR Goa International Airport Limited

S. No.	Mitigation measures	Compliance status				
07	Ensure supply of temporary/portable toilets for construction staff.	Being Complied. Sample photo of portable toile facility is enclosed as <b>Annexure-1 (E)</b> .				
	Mitigation measures for Land Environment dur	ing 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. Currently stocked top soi used for landscaping and horticulture pur within the site.					
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 dur	ing Construction Phase				
12	Ensure preventive maintenance of equipment and vehicles.	Being Complied.				
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	DG sets have provided with acoustic enclosures.				
14	Ensure vehicle movement is avoided at night, and close to sensitive receptors (such as schools, hospitals, place of worships).	e Being Complied.				
	Mitigation measures for Biological Environment d	uring 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 Environmer	nt during Construction Phase				
18	Prohibit use of firewood in project camps and making use of cooking Being Complied. gas is mandatory.					
19	Regulating speed limit of the vehicles	Being regulated.				

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### Half Yearly EC Compliance Report (October 2021 to March 2022)

#### ANNEXURE – 1 (A)

	Field Service Report         1000           Work Order No         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         10000         10000         10000
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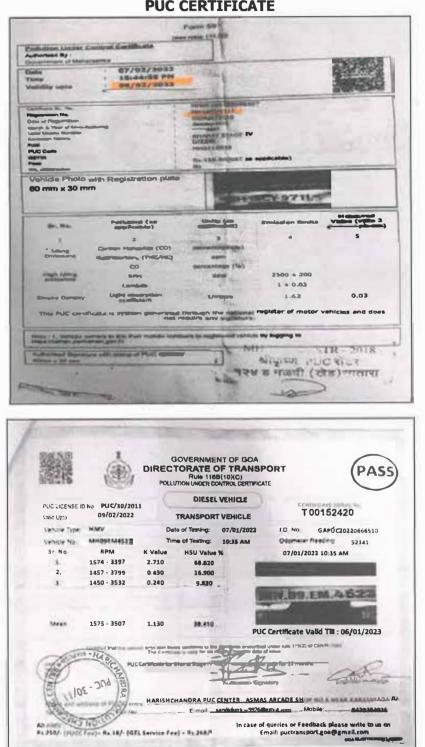
#### **PREVENTATIVE MAINTENANCE OF VEHICLES**





#### Half Yearly EC Compliance Report (October 2021 to March 2022)

#### ANNEXURE - 1 (B)





**PUC CERTIFICATE** 



#### ANNEXURE – 1 (C)

#### **DUST CONTROL MEASURES IMPLEMENTED AT SITE**



#### WATER SPRINKLING ON UNPAVED HAUL ROADS



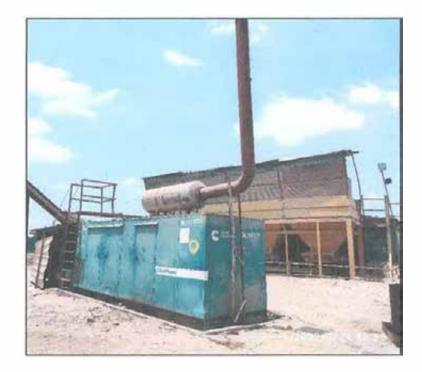
#### FOG CANNONS DEPLOYED AT EARTH WORK AREAS





#### ANNEXURE - 1 (D)

#### DIESEL GENERATORS WITH ADEQUATE STACK HEIGHT





### ANNEXURE – 1 (E)

#### PORTABLE TOILET FACILITIES











# Sadekar Enviro Engineers Pvt. Ltd.

B-206/307, Plot No. 61, Patel Estate, Reix Magos, Verem, Alto, Old Better Road, Bardez, Porvoren, Panaj-Gos-403 101. Goa State, India. 10 .: (0032) 2411322 / 2411323 · E-mail : startabgoa@rediffmail.com Lab. accredited by MOEF.& CC Valid up to 83, 11 2023 & Centified by 15G 8001 2015 & 15O 45001 2018

SEVE LIFITER SPINE LIFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	G REP	OF	T		
Rep	eport Date 30/10/2021									
Name of Client M/s. Megawide (				e Construction DMCC International Airport Limited						
Address of Client Mopa, Goa										
Sampling Plan SEEPL/LD/		/FMT-	54 Sampling Procedure No.				SEEPL/QSP-10			
Sample Collected By SEEPL Rep		presentative								
Month of Sampling October 2021			021							
				AMBIEN	T AIR LOCATION					
Location of ambient air station Mopa			Mopa	a Boundary (Goa State) (G-A1)						
Ave	rage Ambient	Temperature (°C)	30.3	Average Humidity (%) 7		74	5	Latitude	N 15º45'51.1"	
Average Wind Speed (km/hr) 1.9			1.9	Average Wind direction (Deg) 213			13	Longitude	E 73º56'32.4"	
Inst	ruments Used		FPS(/	APM-550),	RDS(APM-460) &G	PS (API	- N	411)		
Sr. Date of		f Depart No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO2		NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	AR/10/2021/0027		7.53	3.24		<6.00	0.05	28,56
2.	07/10/2021	SEE/AR/10/2021/	AR/10/2021/0101		11.38	<3.00		9.33	0.06	36.00
3.	11/10/2021	SEE/AR/10/2021/0177		15.68	10.18	<3.00		7.91	0.03	28.71
4.	14/10/2021	SEE/AR/10/2021/	0261	24,59	15.77	3.96		9,22	0.07	42.65
5.	18/10/2021	SEE/AR/10/2021/	EE/AR/10/2021/0311		10.48	4.16		10.41	0.05	32.12
6.	21/10/2021	SEE/AR/10/2021/	0362	24.56	14.62	3.55	i -	6.83	0.06	41.66
7.	25/10/2021	SEE/AR/10/2021/	AR/10/2021/0398		18.66	6.06		10.91	0.07	53.17
8.	28/10/2021	SEE/AR/10/2021/	0466	23.25	9.63	4.29	)	8.81	0.03	33,34
NAAQS Limits*				100	60	80	0	80	4	
Units			µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/n	n <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m	
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part 0		IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV	

"NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

1) Akash Pattade Dese 2) Aditya Naik Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB.: 1 Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India. 0 : (91-22) 2683 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarsm/ro.com / psadokar5@gmail.com Page 34 of 430 Gazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, S. D. 857 (E). BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India D : (0832) 2437048 / 2437164

### 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

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



B-305/307, Plot No. 61, Patel Estate: Reis Magos, Verem, Alto, Okt Betim Road; Bardez, Porvorim, Panaj-Goa-403 101. Goa State, india. 10 .: (0832) 2411322 / 2411323 \* E-mail: starlabgoa@exdiffmail.com Lab. accredited by MOEF.& CC Valid up to 03 11 2023 A Centified by ISO 9001 2015 & ISO 45001 2018

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		AMBI	ENT A	IR QUA	LITY MONITORII	NG RI	PO	RT		
Rep	ort Date	30/10/2	2021							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	ress of Client	Mopa, G	оā							
Sam	pling Plan	SEEPL/1	D/FM1	r-54	Sampling Procedur	re No.		SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative		_				
Mot	th of Sampling	g October	2021							
				AMBIEN	NT AIR LOCATION					
Loca	ation of ambie	nt air station	Shem	echeadva	in Boundary (Goa Si	tate) ((	3-A23	-		
Ave	rage Ambient	Temperature (°C)	30.9	Averag	e Humidity (%)		73	Latitude	N 15942'0	
Ave	rage Wind Spe	ed (km/hr)	2.1	Averag	e Wind direction (D	leg)	199	Longitude	E 73º49'2	1.5"
Inst	ruments Used		FPS(/	APM-550	), RDS(APM-460) &(	GPS (A	PM -	411)		
Sr. Date of Report No.			PARAMETERS							
No	Sampling	Report No.		PM <sub>t0</sub>	PM <sub>2.5</sub>	SO	1	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021	/0028	22.68	16.17	3.1	7	11.19	0.07	40.52
2.	07/10/2021	SEE/AR/10/2021	/0102	25.60	12.13	3.1	Z	<6.00	0.03	38.30
3.	11/10/2021	SEE/AR/10/2021	/0178	26.70	20.96	3.4	5	8.53	0.05	51.35
4.	14/10/2021	SEE/AR/10/2021	/0262	19.24	14.37	<3.0	0	6,69	0.06	35.03
5.	18/10/2021	SEE/AR/10/2021	/0312	16.35	12.67	5.2	1	8.22	0.03	32.35
б.	21/10/2021	SEE/AR/10/2021	/0363	17.60	7.24	<3.0	0	10.60	0.05	27.43
7.	25/10/2021	SEE/AR/10/2021	/0399	21.31	13.97	3.6	3	8.15	0.06	38.12
8.	28/10/2021	SEE/AR/10/2021	/0467	20.65	12.23	<3.0	00	9.09	0.07	33.46
	NAA	QS Limits*		100	60	80		80	4	-
		Units		$\mu g/m^3$	µg/m <sup>3</sup>	µg/i	n²	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
		Method		IS 5182( Part 23)	Lab SOP NO.: SEEA.D/SOP-AA-04	IS 51 (Part		IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

1) Akash Pattade NERGY 2) Aditya Naik Nandkumar Desai Apendeep Sawant Analyzed by Authorized Signatory Reviewed by

HEAD OFF. & LAB.: 1 Plot No. A-95; Road No. 16; Kisan Nagar Road; M.I.D.C. Wagle Industrial Area; Thane - 400 604; Maharashtra State, India. C : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadokaronvirs.com / pradokar5@gmail.com Page 36 of 430 Gazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 897 (E). BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 10 : (0832) 2437048 / 2437164

# Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RD5- 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

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



8-305/307, Ptot No. 61, Patel Estate, Rois Magos, Verem, Abo, Okt Betim Road, Baedez, Porvorim, Panaj-Goa-403 101. Goa State, India. 10 .: (0832) 2411322 / 2411323 • E-mail: startahgoa@rediffmail.com Lab. accredited by MOEF, & CC Valid: up to 03.11.2023 • Contiled by ISO 9001:2015 & ISO 45001 (2018 SAVE WATER SAVE UPE

		AMBI	ENT A	IR QUA	LITY MONITORI	NG R	EPOI	RT		
Rep	ort Date	30/10/2	021							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Add	Iress of Client	Mopa, G	oa			_				
Sam	npling Plan	SEEPL/1	D/FM7	- 54	Sampling Procedu	re No	ų	SEEPL/QS	P-10	
San	ple Collected I	By SEEPL R	epresei	ntative						
Mor	nth of Samplin;	g October	2021							
			1	AMBIE	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Nagza	ar(Goa St	ate) (G-A3)					
Ave	rage Ambient	Temperature (°C)	30.6	Averag	ge Humidity (%)		72	Latitude	N 15º45'3	7.3"
Ave	rage Wind Spe	ed (km/hr)	2.3	Averag	ge Wind direction (E	)eg)	234	Longitude	E 73053'1	4.22"
Inst	truments Used		FPS(/	APM-550	), RDS(APM-460) &	GPS (/	APM -	411)		
Sr.	Date of	Description		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	S	02	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	0029	12.63	7.28	<3	00	6.45	0.06	20.53
2.	07/10/2021	SEE/AR/10/2021/	0103	18.14	6.61	<3	00	6.41	0.05	25.86
3.	11/10/2021	SEE/AR/10/2021,	0179	14.97	8.19	<3	00	6.20	0.06	25.92
4.	14/10/2021	SEE/AR/10/2021	/0263	27.16	20.67	<3	.00	<6.00	0.03	50.37
5.	18/10/2021	SEE/AR/10/2021,	/0313	14.26	4.91	<3	.00	6.60	0.05	19.69
6.	21/10/2021	SEE/AR/10/2021	/0364	21.34	11.52	<3	.00	<6.00	0.06	35.17
7.	25/10/2021	SEE/AR/10/2021,	/0400	22.33	20.29	<3	.00	<6.00	0.03	46.44
8.	28/10/2021	SEE/AR/10/2021,	/0468	14.80	4.60	<3	.00	<6.00	0.05	21.24
	NAA	QS Limits*		100	60	8	0	80	4	
		Units		µg/m <sup>3</sup>	µg/m³	µg.	/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
1		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 t 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

1) Akash Pattade The 2) Aditya Naik Analyzed by

Nandkumar Desai Reviewed by

Anandeep Sawant Authorized Signatory

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RD5- 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	E1/FF/628	20/02/2021	19/02/2022

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



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaj-Gos-403 101, Gos State, India, (Č.: (0632) 2411322 / 2411323 \* E-mail: startabgos@net#Imail.com Lab. accredited by MOEF.& CC Valid: up to 03:11:2023 \* Centified by ISO 3001:2015 & ISO 45001: 2018 SPIVE UPTER

		AMBI	ENT A	IR QUA	LITY MONITORIN	NG R	EPO	RT		
Rep	ort Date	30/10/2	021							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	ress of Client	Mopa, G	oa.				_			
Sam	ipling Plan	SEEPL/1	D/FM1	r- 54	Sampling Procedur	e No.	2	SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative						
Mor	th of Samplin	g October	2021							
				AMBIE	NT AIR LOCATION					
Loca	ation of ambie	nt air station	Purva	i Casarva	rnem (Goa State)(G-	A4)				
Ave	rage Ambient	Temperature (°C)	31.2	.2 Average Humidity (%) 78			Latitude	N 15º41'4	1.9"	
Average Wind Speed (km/hr) 1.7			Averag	Average Wind direction (Deg) 243 Longitude E 73*50'16.6				5,6"		
Inst	ruments Used		FPS(/	APM-550	), RDS(APM-460) &0	IPS (/	PM -	411)		
Sr.	Sr. Date of Report No. PARAMETERS									
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	S	01	NOx	CO	SPM
1,	04/10/2021	SEE/AR/10/2021/	0030	22.32	18.01	33	32	6.14	0.05	42.54
2.	07/10/2021	SEE/AR/10/2021/	0104	28.16	14.39	<3	00	<6.00	0.03	44.21
3,	11/10/2021	SEE/AR/10/2021,	0180	13.37	9.48	<3	00	<6.00	0.06	24.52
4.	14/10/2021	SEE/AR/10/2021/	0264	18.76	5.67	<3	00	6.41	0.05	24.97
5,	18/10/2021	SEE/AR/10/2021,	0314	21.84	8.36	<3	.00	6.18	0.03	31.21
б.	21/10/2021	SEE/AR/10/2021,	0365	32.45	18.34	<3	.00	6.34	0.06	53,93
7,	25/10/2021	SEE/AR/10/2021,	0401	30.67	14.39	<3	00	<6.00	0,05	48,65
8.	28/10/2021	SEE/AR/10/2021/	0469	27.45	18.55	<3	.00	6.42	0.03	46.76
	NAA	QS Limits*		100	60	8	0	80	4	
		Units		$\mu g/m^3$	µg/m³	μg	/m <sup>a</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
)		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		182 t 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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Nandkumar Desai Reviewed by



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Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 2 : (0832) 2437048 / 2437164

# Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

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

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

Sr No.	Instrument Type	Callbrated on	Calibration due date
01	CO Analyzer (SR No. D1 DT L14)	21/11/2020	21/11/2021



B-305/307, Plot No. 01, Patel Estate, Reis Magos, Verem, Alto, Old Bellini Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. (C) : (0832) 2411322 / 2411323 \* E-mail: startatigoa@red/finali.com Lab. accredited by MOEF.& CC Valid: up to 03 11 2023 \* Certified by /SCI 0001 2015 & ISO 45001 : 2018 SAVE LURIER SRVE LIFE

		AMB	ENT A	AIR QUA	LITY MONITORIN	IG RE	PORT		
Rep	ort Date	30/10/2	021						
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Add	ress of Client	Mopa, G	lopa, Goa						
Sam	pling Plan	SEEPL/1	D/FM1	r- 54	Sampling Procedure	No.	SEEPL/QSP-1	0	
Sam	ple Collected I	By SEEPL R	eprese	ntative		_			
Mor	th of Sampling	g October	2021						
					NT AIR LOCATION				
Loca	ation of ambie	nt air station			Porscodem(Goa Stat	a der den gemeinen	The second second second		612W
		Temperature (°C)	31.1		e Humidity (%)	70	and the second se	N 15º40'3	
Average Wind Speed (km/hr) 2.4			Average Wind direction (Deg) 211 Longitude E 73º46'21.2"						
inst	ruments Used		FPS[/	APM-550)	, RDS(APM-460) &G	and a state of the second	and a second state of the		_
Sr.	Date of	Report No.	-	191607	1 (200) I	PARAM			
No	Sampling			PM <sub>10</sub>	PM <sub>2.5</sub>	SO;	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	0031	20.19	11.60	3.46	5 <6.00	0.06	32.13
2.	07/10/2021	SEE/AR/10/2021/	0105	15.10	8.23	<3.0	0 <6.00	0.03	23.57
З,	11/10/2021	SEE/AR/10/2021,	0181	22.74	18.59	<3.0	0 <6.00	0.05	44.49
4.	14/10/2021	SEE/AR/10/2021,	0265	26.49	16.47	<3.0	0 6,68	0.07	45.07
5.	18/10/2021	SEE/AR/10/2021,	0315	11.67	6.99	<3.0	0 6.37	0.06	20.24
б.	21/10/2021	SEE/AR/10/2021	/0366	14.80	5.86	3,23	3 <6.00	0.03	20.89
7.	25/10/2021	SEE/AR/10/2021	/0402	23.86	18.46	<3.0	0 6,69	0.05	44.09
8.	28/10/2021	SEE/AR/10/2021	/0470	18.16	8.22	<3.0	0 6.59	0.06	27.06
	NAA	QS Limits*		100	60	80	80	4	3
		Units		µg/ m3	µg/m³	µg/r	the second	mg/m <sup>3</sup>	µg/m
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part)	The second se	IS 5182( Part 10)	IS 5182 Part IV

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

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Nandkumar Desai Reviewed by

Anandeep Sawant Authorized Signatory

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1895-DTJ-2014)	LES-CCL/FF/MF/SC/11S2	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

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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		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REPC	RT		
Report Date 30/10/2021									
Name of Client M/s. Megawide C/o GMR Goa in					ion DMCC il Airport Limited				
Add	ress of Client	Mopa, G	sa.						
Sam	pling Plan	SEEPL/L	D/FM1	r- 54	Sampling Proced	lure No.	SEEPL/QSI	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative					
Month of Sampling October 2021									
				AMBIEN	T AIR LOCATION				
Loca	ation of ambie	nt air station	Rajvi	l Wada Tor	xem (Goa State)(G-	A6)			
Average Ambient Temperature (PC) 30.9			30.9	Average	Average Humidity (%) 75		Latitude	N 15º48'4	0.0*
Average Wind Speed (km/hr) 1.9				Average	Wind direction (Deg	g) 209	Longitude	E 73052'5	0.2*
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (APM	- 411)		
Sr.	Date of	Descent No.	PARAMETERS						
No	Sampling	Report No.		PM <sub>t0</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	0032	26.12	15.71	4.07	<6.00	0.03	43.00
Ζ.	07/10/2021	SEE/AR/10/2021/	0106	18.36	9.59	4.19	<6.00	0.06	29.49
3.	11/10/2021	SEE/AR/10/2021/	0182	21.76	18.09	<3.00	6.18	0.05	41.38
4.	14/10/2021	SEE/AR/10/2021/	0266	16.21	13.76	<3.00	7.00	0.03	30.29
5,	18/10/2021	SEE/AR/10/2021/		35.60	18.42	<3.00	6.41	0.07	54.54
6.	21/10/2021	SEE/AR/10/2021	0367	26.84	15.47	<3.00	<6.00	0.05	43.56
7.	25/10/2021	SEE/AR/10/2021	0403	34.10	21.04	<3.00	6.54	0.03	57.23
8.	28/10/2021	SEE/AR/10/2021	0471	22.64	6.84	3.28	<6.00	0.06	31.62
	NAA	QS Limits*		100	60	80	80	4	-
		Units		$\mu g/m^2$	µg/m³	µg/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
Method				IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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: 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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Nandkumar Desal Reviewed by

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 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 ND. 298-0TJ-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

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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		AMBI	ENT A	IR QUAL	ITY MONITORIN	G REPO	RT		
Report Date 30/10/2021									
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited									
Add	ress of Client	Mopa, G	oa 👘						
Sam	pling Plan	SEEPL/L	D/FM1	r- 54	Sampling Procedu	ure No.	SEEPL/QSI	P-10	
Sam	ple Collected I	Dy SEEPL R	eprese	ntative					
Mor	nth of Samplin	g October	2021						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Satar	da(Mahara	ishtra State)(M-A1)				
Average Ambient Temperature (°C) 31.6			31.6	Average	Humidity (%)	74	Latitude	N15º43'0	
Average Wind Speed (km/hr) 1.8			1.8	Average Wind direction (Deg) 204 Longitude E 73º46'00.2"				0.2"	
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) & GF	PS (APM	- 411)		
Sr.	Date of	Report No.		PARAMETERS					
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	0033	11.55	5,82	<3.00	7.14	0.05	18.43
2.	07/10/2021	SEE/AR/10/2021/	0107	14.61	8.15	<3.00	<6.00	0.07	23.23
3.	11/10/2021	SEE/AR/10/2021/	0183	21.86	12.56	<3.00	<6.00	0.06	37.11
4.	14/10/2021	SEE/AR/10/2021/	0267	28.28	15.34	<3.00	7.68	0.03	45.09
5.	18/10/2021	SEE/AR/10/2021/	0317	30.03	13.14	<3.00	6.15	0.05	43.88
б.	21/10/2021	SEE/AR/10/2021/	0368	18.31	6.15	<3.00	7.20	0.06	25.04
7,	25/10/2021	SEE/AR/10/2021/	0404	22.95	6.57	3.20	<6.00	0.06	30.72
8,	28/10/2021	SEE/AR/10/2021,	0472	16.42	5.61	<3.00	<6.00	0.05	23.28
	NAA	QS Limits*		100	60	80	80	4	
		Units		μg/ m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
1		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 518 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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Nandkumar Desai Reviewed by



andeep Sawant Authorized Signatory

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Gazatlad By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 657 (E).

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India 10 : (0832) 2437048 / 2437164 E-mail : sadekarenviro@rectiffmail.com \* Website : www.sadekarenviro.com \* CN No. UAS2000H1998PTC.116379

# Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Cartificate No.	Calibrated on	Calibration due date
01	RD5- 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

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



B-306/307, Piet No. 61, Patel Estate, Reis Magos, Varem, Alto, Oti Betim Road, Bardicz, Porvorim, Panaji-Goa-403 101. Gen State, India. (C) : (0832) 2411322 / 2411323 \* E-mail: startabgoa@red@nail.com Lab. accredited by MOEF & CC Valid: up to 03 11.2023 \* Centiling by ISO 9001-2015 & ISO 45001 : 2018 SAVE WATER SAVE UPE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REF	PORT		
Rep	ort Date	30/10/2	021						
Name of Client         M/s. Megawide Construction DMCC           C/o GMR Goa international Airport Limited									
Add	ress of Client	Mopa, G	5a						
Sam	pling Plan	SEEPL/I	D/FM1	r- 54	Sampling Proced	lure No	SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative					
Mor	th of Samplin	g October	October 2021						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Ding	na (Mahara	ishtra State)(M-A2)				
Average Ambient Temperature (°C) 31.2			31.2	Average	Humidity (%)	74	Latitude	N 15º46'1	2.3"
Average Wind Speed (km/hr) 1.5				Average	Average Wind direction (Deg) 189 Longitude E 73º49'2				0.5"
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (API	M - 411)		
Sr.	Date of	P	PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM2.5	SOz	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021/	0034	21.45	10.85	<3.00	<6.00	0.03	33.44
2.	07/10/2021	SEE/AR/10/2021/	0108	16.23	5.36	<3.00	<6.00	0.05	22.37
3.	11/10/2021	SEE/AR/10/2021	0184	18.40	14.55	<3.00	<6.00	0.06	35.07
4.	14/10/2021	SEE/AR/10/2021	0268	22,82	12.89	<3.00	7.32	0.05	36.25
5.	18/10/2021	SEE/AR/10/2021	0318	22.96	4.12	<3.00	6,32	0.05	26.97
6.	21/10/2021	SEE/AR/10/2021	0369	25.40	9.36	<3.00	6.71	0.07	36.87
7.	25/10/2021	SEE/AR/10/2021	0405	16.70	8.03	<3.00	6.85	0.06	25.19
8.	28/10/2021	SEE/AR/10/2021,	0473	14.68	6.24	<3.00	<6.00	0.05	21.44
	NAA	QS Limits*		100	60	80	80	4	1
		Units		$\mu g/m^3$	µg/m <sup>a</sup>	µg/m	<sup>2</sup> μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
Method				IS 5182( Part 23)	Lab SOP NO: SEE/LD/SOP-AA-04	IS 518 (Part 0	Contraction of the second s	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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# 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	FP5 - APM 550 MINI	LES-CCL/FF/RF/SC/3399	15/07/2021	14/07/2022	

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



B-306/307, Plot No. 61, Polei Estate, Reis Magos, Verem, Alto, Ott Betim Road, Bardez, Porvorim, Panaji-Gos-403 101. Gos State, India. ℃. (0832) 2411322 / 2411323 \* E-mail: statetogoa@rediffmail.com Lam. accredited by MDEF,& CC Valid: up to 03.11 2023 ★ Centified by ISO 9001-2015 & ISO 45001 : 2018 SPIVE WIRITER

		AMB	ENT A	IR QUAL	ITY MONITORIN	G REPO	RT		
Rep	ort Date	30/10/	2021						
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Add	iress of Client	Mopa, G	oa						
San	pling Plan	SEEPL/	LD/FM	Γ-54	Sampling Proced	ure No.	SEEPL/QSI	P-10	
San	ple Collected	By SEEPL I	leprese	ntative					
Mor	th of Samplin	g October	2021						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Neta	de(Mahar	ashtra State)(M-A3)				
Ave	rage Ambient	Temperature (°C)	30.7	Average	Humidity (%)	79	Latitude	N 15º46'1	1.7"
Average Wind Speed (km/hr) 1.8			Average	Wind direction (Deg	3) 231	Longitude	E 73°50'4	8.0"	
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) & GI	PS (APM	- 411)		
Sr.	Date of	Report No.				PARAME	0.0101010		
No	Sampling			PMst	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	04/10/2021	SEE/AR/10/2021	/0035	13.41	8.40	<3.00	<6.00	0.06	22.37
2.	07/10/2021	SEE/AR/10/2021	/0109	18.45	12.68	<3.00	6.49	0.03	32.79
3.	11/10/2021	SEE/AR/10/2021	/0185	16.62	6.82	<3.00	8.02	0.05	24.51
4.	14/10/2021	SEE/AR/10/2021	/0269	22.34	17.55	<3.00	7.65	0.05	42.02
5,	18/10/2021	SEE/AR/10/2021	/0319	30.94	13.76	<3.00	6.33	0.06	45.33
6.	21/10/2021	SEE/AR/10/2021	/0370	24.68	16.22	<3.00	7.15	0.03	42.45
7.	25/10/2021	SEE/AR/10/2021	/0406	21.55	13.51	<3.00	<6.00	0.05	35.55
8.	28/10/2021	SEE/AR/10/2021	/0474	20.60	7.28	<3.00	6.73	0.06	30.02
	NAA	QS Limits*		100	60	80	80	4	1.28
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

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

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No	Calibrated on	Calibration due date
01	RDS- APM 460 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

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. D1 DT L14)	21/11/2020	21/11/2021	



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AMBIENT AIR QU/	ALITY MONITORING	REPORT			
SEE/AR/10/2021/0475	Date of Issue		02/11/2021		
			-		
Mopa, Goa	Mopa, Goa				
SEEPL Representative	Environmental condition of Lab				
28/10/2021	Temperature(°C)	28.4	Humidity (%)	68	
30/10/2021	Analysis Completed On 02/11/2021				
	SEE/AR/10/2021/0475 M/s. Megawide Constructio C/o GMR Goa internationa Mopa, Goa SEEPL Representative 28/10/2021	SEE/AR/10/2021/0475     Date of I       M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited       Mopa, Goa       SEEPL Representative       28/10/2021       Temperature(°C)	M/s. Megawide Construction DMCC         C/o GMR Goa international Airport Limited         Mopa, Goa         SEEPL Representative         28/10/2021         Temperature(%C)         28.4	SEE/AR/10/2021/0475     Date of Issue     02/11/202       M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited         Mopa, Goa     SEEPL Representative     Environmental condition of Lab       28/10/2021     Temperature(°C)     28.4     Humidity (%)	

#### AMBIENT AIR LOCATION

Mopa Boundary (Goa State)
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	101-DTD-2014	EI/FF/635	19/02/2021	18/02/2022



8-306/307, Plot No. 61, Patel Estate, Reis Magos, Veren, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa 403 101, Goe State, India. 🕐 : (0832) 2411322 / 2411323 • E-mail : stariabgoa@rediffmail.com SAVE WATER SAVE UPE

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	AMBIENT AIR QU	ALITY MONITORING	REPORT						
Report No.	SEE/AR/10/2021/0476	Date of	Date of Issue		21				
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	28/10/2021	Temperature(%C)	28.4	Humidity (%)	68				
Analysis Started On	30/10/2021	Analysis Complet	ed On	02/11/2021					
		AIRLOCATION							

#### 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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Susimita Kapdoskar Analyzed by

Nandkumar Desai Reviewed by



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Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	E1/FF/636	19/02/2021	18/02/2022



8-306/307, Plot No. 81, Patel Estate, Reis Magze, Veren, Atn, Old Betm Hoad, Bantez, Purvorm, Panaj-Gon-403 101. Gos State, India. 10 .: (0832) 2411322 / 2411323 E-mail : startstgps@mdffmail.com SAME WATER SAME UPE

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			AMBIENT AIR QU	ALITY MO	NITORING	REPORT			
Report N	0.	SEE/	AR/10/2021/0477		Date of it	ISU0	02/11/20	21	
Name of	Client		s. Megawide Construction DMCC o GMR Goa international Airport Limited						
Address	of Client	Мора	a, Goa						
Sample 0	Collected By	SEE	PL Representative		E	invitonme	antal condition of Lab		
Date of S	ampling	28/10	/2021	Tempe	rature(°C)	28.4	Humidity (%)	68	
Analysis	Started On	30/10	0/2021	Analys	is Complete	d On	02/11/2021		
			AMBIENT	AIR LOCA	TION				
Location o	of ambient air sta	tion	Shemecheadvan B	oundary (G	Goa State)				
Instrumen	ts Used		Organic Vapour Sa	mpler					
			Chemical Testi	ng - Atmos	pheric Poll	ution			
Sr. No.	Par	ameters	Ret	sult	Unit		Meth	od	
01	Total VOC		<1.	0	ppm		Method 18		

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
- : This certificate may not be reproduced in part, without the permission of this laboratory.
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Suemita Kapdoskar Analyzed by

Nandkumar Desai Reviewed by

CONTRACTOR AND ADDRESS OF TAXABLE

Anandeep Sawant Authorized Signatory

TC: 110776

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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



8-306/307, Plot No. 61, Patel Estate. Reis Magos, Vienen, Alts, Old Betim Road, Bantez, Porvonin, Panaj-Goa-403 101. Goa State, India. 10 : (0832) 2411322 / 2411323 • E-mail : startetigne@rediffmail.com Lab. accredited by MOEF.a CC Valid up to 03.11.2023 & Certilled by ISO 9001 2015 & ISO 45001 2018

SERVE WHITEH SHIVE LIFE

	NOISE LEVE	L MONITORING REP	ORT						
Report No.		SEE/AR/10/2021/0186-0187, 0259-0260, 0321, 0288, 0320, 0353, 0356, 0289, 0355, 0352 Report Date 25/10/2021							
Name of Client	M/s. Megawide Construction I C/o GMR Gea international A								
Address of Client	Mopa, Goa								
Sample Collected By	SEEPL Representative								
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Proce	idure No.	SEEPL/QSP-10					
	Chemical Testing - Atr	acarcheric Pollution							

Sr.	Date of	Report No.	Station	Zone	Day Time Noise in dB(A)			Night Time Noise in dB(A)			
No	Monitoring		ID			Lmin	Limax	Leq	Lmin	Lmax	Leq
1	11/10/2021	SEE/AR/10/2021/0186	G-N1	1	Mopa Boundary	34.8	75,7	61.3	35.0	67.3	52.8
2	11/10/2021	SEE/AR/10/2021/0187	G-N2	1	Shemecheadvan Boundary	30,3	86.6	63.1	30.0	69.6	48.9
3	13/10/2021	SEE/AR/10/2021/0259	G-N3	C	Nagzar	32.8	71.6	59.6	34.6	64.8	46.0
4	13/10/2021	SEE/AR/10/2021/0260	G-N4	R	Purva Casarvamem	31.3	62.8	43.7	30.0	58.5	40.0
5	18/10/2021	SEE/AR/10/2021/0321	G-N5	R	Chandel	30.9	66.7	48.9	30.2	63.2	40.4
6	15/10/2021	SEE/AR/10/2021/0288	G-N6	R	Khajne Amere Porscodem	38.7	71.5	48.3	30.5	50.5	39.8
7	16/10/2021	SEE/AR/10/2021/0320	G-N7	R	Warkhand	30.8	62.0	49.7	30.0	46.6	38.6
8	19/10/2021	SEE/AR/10/2021/0353	G-N8	C	Rajvil Wada Torxem	33.1	73.5	56.1	39.4	53.8	46.7
9.	20/10/2021	SEE/AR/10/2021/0356	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvern	30.4	66,6	50.8	33.3	55.8	46.5
10.	15/10/2021	SEE/AR/10/2021/0289	M-N1	R	Satarda	39.5	67.2	45.2	30.2	50.5	37.4
11.	20/10/2021	SEE/AR/10/2021/0355	M-N2	R	Dingna	30.9	65.9	45.4	30.0	57.3	38.3
12.	19/10/2021	SEE/AR/10/2021/0352	M-N3	R	Netarde	33,2	74,5	49.3	31.0	55.5	38.1

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

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

Area Cada	Category of Area	Limits in dB(A) Leq			
mea code calleg	Canadory or wear	Day Time	Night Time		
(A)	Industrial Area (1)	75	70		
(B)	Commercial Area ( C )	65	55		
(C)	Residential Area (R)	55	45		
(D)	Silence Zone (S)	50	40		

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

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

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the  $\mathbf{r}$ 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 tasted.

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

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20002 NDESG Sanjwan Gawas Nandoumar Desai Adandeep Sawant Monitored by Reviewed by Authorized Signatory

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# Calibration Details of Equipment used for Sampling

#### Noise Level Meter No.1(A0913-1393)

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



B-306/307, Plot No. 61, Patal Estate, Reis Magos, Verem, Alto, Okt Betler, Road, Bardez, Porverim, Panaji-Goai-403 101, Goa State, india. (C) ; (0832) 2411322 / 2411323 \* E-mail : startabgoa@rediffmat.com Lab. accredited by MOEF.& CC Velid: up 10:03, 11, 2023 \* Centified by ISO 9001-2015 & ISO 45001 - 2018. SAVE WATER SAVE UPE

	WORKPLACE NO	DISE LEVE	L MONITORING R	EPORT				
Report No.	SEE/AR/10/2021/0478	SEE/AR/10/2021/0478-0482 Report Date 30/10/2021						
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	Samplin	Sampling Procedure No.		P-10			
Sample Collected By	SEEPL Representative							
Date of Sampling	28/10/2021							

#### **Chemical Testing - Atmospheric Pollution**

De Ma	Depart No.	Sampling Location	Noise in dB (A)
Sr. No.	, No. Report No.	(From 1.0 meter off)	Day Time
01.	SEE/AR/10/2021/0478	Hot Mix Plant - Linnhoff (160 TPH)	84.4
02	SEE/AR/10/2021/0479	ATC & TB Building	72.4
03.	SEE/AR/10/2021/0480	Ripper Excavator	82.5
04.	SEE/AR/10/2021/0481	Drum Cutter	79.2
05.	SEE/AR/10/2021/0482	P.T.B. Area	76.4
	a Brahan Alan Ara Managara ang ang ang ang ang ang ang ang ang an		

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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Sanfivan Gawas Monitored by

Nandkumar Desai Reviewed by



Anandeep Sawant Authorized Signatory

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# Calibration Details of Equipment used for Sampling

#### Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/346	18/07/2021	18/07/2022



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		STACK EM	ISSION REPORT			
Report No.	SEE/AR/10/202	SEE/AR/10/2021/0335			25/10/202	1
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa					
Sampling Plan	SEEPL/LD/FM	Г- 54	SEEPL/LD/FMT	- 54	SEEPL/LD/FMT	- 54
Sample Collected By	SEEPL Repres	SEEPL Representative		Environmental condition		
Date of Sampling	19/10/2021	19/10/2021		) 28.0	Humidity (%)	69
Analysis Started On	19/10/2021		Analysis Completed On		25/10/2021	
		STACK	DETAILS			
Attached To		Hot Mix F	Plant – Linnhoff (160	TPH)		
Shape		Rectangular				
Dimension		1.0 x 0.90 Mtr				
Height from Ground Level		15.00 Mtr				
Temperature		105 °C				
Velocity of Flue Gases		11.68 m/	580			
Volumetric Flue Gas Flow F	Rate	37843.20	) m <sup>sy</sup> hour			
Contraction of the second se		and the second sec	the second se			

#### 29805.77 Nm-Vhour POLLUTIONAL PARAMETERS

Sr. No.	Parameters	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.95	1.62	Kg/hour	IS 11255(Part II)
02.	Particulate Matter	18.84	150.00	mg/Nm <sup>3</sup>	IS 11255 (part I)

### \*\*Consent No.12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.

Volumetric Flue Gas Flow Rate

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

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Suamita Kapdoskar Analyzed by

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Reviewed by



Anandeep Sewant Authorized Signatory

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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

# FLUE GAS ANALYSER

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



8-306/307, Ptot No. 61, Palet Estate, Reis Magoe, Venem, Alto, Old Bettin Roed, Banduz, Porvolm, Paragi-Goa-403 101. Goa State, India. 10 .: (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com Lab. accredited by MCEF,& CC Valid: up to 03:11 2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

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		STACK EM	ISSION REPORT				
Report No.	SEE/AR/10/202	SEE/AR/10/2021/0354				26/10/2021	
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport					
Address of Client	Mopa, Goa						
Sampling Plan	SEEPL/LD/FM	U/LD/FMT-54 SEEPL/LD/FMT-54			S	SEEPLAD/FMT- 54	
Sample Collected By	SEEPL Repres	SEEPL Representative		Environmental condition of lab			
Date of Sampling	20/10/2021		Temperature[0	C) 28	.1 H	umidity (%)	66
Analysis Started On	20/10/2021		Analysis Completed On 26/10/2021				
		STACK [	DETAILS				
Attached To		Hot Mix F	Plant – Ammann(13	20 TPH)			
Shape		Round					
Dimension		0.78 Mtr	S				
Height from Ground Level		15.00 Mt	r				
Temperature		90 °C					

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#### \*\*Consent No.12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.

Parameters

Particulate Matter

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

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17.18 m/sec

Result

0.77

12:32

29550.97 m<sup>3</sup>/hour

24250.09 NmVhour POLLUTIONAL PARAMETERS

Limits\*\*

1.62

150.00

Susmita Kapdoskar Analyzed by

Sr. No.

01

02

Velocity of Flue Gases

Volumetric Flue Gas Flow Rate

Volumetric Flue Gas Flow Rate

SO2

NDEPA Nandkumar Desai Reviewed by



Unit

Kg/hour

mg/Nm<sup>3</sup>

Anandeep Sawant Authorized Signatory

Method

IS 11255(Part II)

IS 11255 (part I)

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

Sr No.	Instrument Type	Certificate No.	Celibrated on	Calibration due date
01	Vayubodhan (VSS-1)	EVET/306	20/02/2021	19/02/2022

### BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Fling (SI NO 5000391)	14/06/2021	13/06/2022



5-306/307, Plut No. 61, Putel Estate, Reis Megos, Varem, Alto, Old Beten Road, Bandez, Porvorm, Panaj-Goa-403 101. Gos State, India. 40 .: (9832) 3411322 / 2411323 \* E-mail : starlahgea@mailfmail.com Lab accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001.2015 & ISO 45001 2018

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		STACK EN	MISSION REPORT				
Report No.	SEE/AR/10/202	1/0336	Date of Issu	Date of Issue			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited					
Address of Client	Mopa, Goa				2		
Sampling Ptan	SEEPL/LD/FM	F- 54	Sampling Procedur	e No.	SEEPL/QSP-10		
Sample Collected By	SEEPL Repres	entative	Er	wiranmer	ntal condition of lab		
Date of Sampling	19/10/2021		Temperature(°C)	28.0	Humidity (%)	69	
Analysis Started On	19/10/2021	19/10/2021		Analysis Completed On		25/10/2021	
		STACK	DETAILS				
Attached To		Diesel G	Generator (500 KVA) (S	r. No.01/1	17/09/1460)		
Shape		Round					
Diameter		0.12 Mbr	0.12 Mtr				
Height From Ground Level		8.0 Mtr	8.0 Mtr				
Material of Construction		M.S.					
Temperature		407 °C					
Velocity of Flue Gases		17.10 m/sec					
Volumetric Flue Gas Flow F	Rate	695.63 r	m <sup>3</sup> /hour				
Volumetric Flue Gas Flow F	late	304,111	Nm <sup>1</sup> /hour				
Type of Fuel		H.S.D.					
Fuel Consumption		19.00 lib	/hr				

#### **Chemical Testing - Atmospheric Pollution**

Sr. No.	Parameter	Result	Limits**	Unit	Method
01	SOI	0.12	2.1	Kg/hour	IS 11255(Part II)
02	NO <sub>8</sub>	0.22	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	0.08	1.3	g/kw-hr	By Flue Gas Analyzer
05.	Particulate Matter	0.11	0.3	g/kw-hr	IS 11255 (part I)
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Note : Test results related only to the sample tested.

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

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Susmita Kapdoskar

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Analyzed by

Needy Nandkumar Desai Reviewed by

**E料石** 

Arrandeep Sawant Authorized Signatory

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# Stack Kit (SR No.293 DTI-2020)

Sr No.	Instrument Type	Cortificate No.	Calibrated on	Calibration due date
01	Vayubodhon (VSS-1.)	ECU/SEEPU/2020- 21/FLOW/3235A	16/12/2020	05/12/2021

# UV Spectrophotometer

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

#### FLUE GAS ANALYSER

Sr No.	Instrument Type	Galibrated on	Calibration due date
01	Flue-Gan Analyser	25/04/2021	24/04/2022
	(Sr. No.20190427296A)		

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SOME LUPITER SPINELIPE

		STACK EN	IISSION REPORT				
Report No.	SEE/AR/10/202	SEE/AR/10/2021/0357		Date of Issue			
Name of Client	M/s. Megawide C/o GMR Goa ir		ation DMCC nal Airport Limited				
Address of Client	Mopa, Goa		10/17				
Sampling Plan	SEEPL/LD/FMT-54		Sampling Procedure No.		SEEPL/QSP-10	)	
Sample Collected By	SEEPL Representative		En	tremnoriv	al condition of lab		
Date of Sampling	20/10/2021		Temperature("C)	28.1	Humidity (%)	66	
Analysis Started On	nalysis Started On 20/10/2021		Analysis Completed On 26/10/2021				
		STACK	DETAILS				
Attached To		Diesel G	enerator (125 KVA) (Sr. I	No. 01/16	/09/2898)		
Shape		Round					

Shape	Round
Diameter	0.07 Mtr
Height From Ground Level	4.5 Mtr
Material of Construction	M.S.
Temperature	350 °C
Velocity of Flue Gases	16.78 m/sec
Volumetric Flue Gas Flow Rate	229.55 m <sup>3</sup> /hour
Volumetric Flue Gas Flow Rate	109.73 Nm <sup>9</sup> /hour
Type of Fuel	H.S.D.
Fuel Consumption	7.00 lit/hr

#### **Chemical Testing - Atmospheric Pollution**

Sr. No.	Parameters	Result	Limits**	Unit	Method	
01.	SO2	0.03	0.525	Kg/hour	IS 11255(Part II)	
02.	NOx	0.20	9.2	g/kw-hr	IS 11255(Part VII)	
03.	Carbon Monoxide	0.05	3.5	g/kw-hr	By Flue Gas Analyzer	
04	Hydrocarbons	0.04	1.3	g/kw-hr	By Flue Gas Analyzer	
05	Particulate Matter	0.09	0.3	g/kw-hr	IS 11255 (part I)	

#### \*\*Consent No. 12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.

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

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Susmita Kapdoskar Analyzed by

NDesa. Nandkumar Desai Reviewed by

Anandeep Sawant

Authorized Signatory

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# 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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	102	000044400	terrarana en esta	Issue Date		20/1	0/2021	
Repo	S1630	SEE/10/2021/199						
Name	e of Client	M/s. Megawide C C/o GMR Goa In						
Address of Client Mopa, Goa								
Order	/ Reference	As per dated 14/	10/2021	Environmental Condi	tion of Lab	Temp ° C 28.2	Humidity %	
Samp	ling point	Borewell 1				h		
Samp	ole details	Ground Water		Date of collec	tion	14/	10/2021	
Samp	ble Collected by	SEEPL Represer	itative	Sample Rece	ived On	14/	10/2021	
Analy	sis Started On	14/10/2021		Analysis Com	pleted On	20/	10/2021	
Samp	ale Container	Glass bottle		Sample Quan	tity	500	l0 ml	
Chen	nical Testing			1				
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Methor		
1.	рН	6.72	(a)	6.5 - 8.5	IS 3025 (P	art 11)		
2.	Turbidity	0.88	NTU	1.00	IS 3025 (P	art 5)		
3.	Taste	Agreeable	- 33	Not Specified	APHA( 23	Edition ) 216	) 2160 B	
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23	Edition ) 212	20 B	
5.	Odour	Agreeable	100	Not Specified	APHA(23°	APHA( 23rdEdition ) 2150		
6.	Total Alkalinity	80.00	mg/lit	200.00	IS 3025 (Part 23)			
7.	Total Dissolved Solids	153.00	mg/lit	500.00	IS 3025 (P	art 16)		
8.	Chlorides as Cl	14.51	mg/lit	250.00	IS 3025 (P	art 32)		
9	Sulphate as SO(	<5.00	mg/lit	200.00	IS 3025 (P	art 24)		
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23	Edition ) 450	00 S <sup>2</sup> F	
11,	Total Hardness as CaCC	) <sub>3</sub> 106.00	mg/lit	200.00	IS 3025 (P	art 21)		
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)			
13. Mineral oil <0.1			mg/lit	0.50	Clause 6 c	of 15 3025 (Pa	art 39)	
2. Ar	nreya Harmalkar hisha Parab		Nandkuma Reviewe	ar Desai			Hundry deep Sawant orized Signator	

(0): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 \* E-mail: prs@sadekwerwin.com / psadeka5@gmail.com Page P7606 436 / 3
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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	2	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

				Issue Date		20/10/2021	
1000	r / Reference		As per dated 14/10/2021			Received On	14/10/2021
Analy	rsis Started On	14/10/2021			Analysis	Completed On	20/10/2021
Name	e of Client		de Construct oa Internation	ion DMCC nal Airport Lim	ited		
Chen	nical Testing			1			
Sr. No.	Parameter	Result	Unit	IS desir Limit (As 1050	per IS		Method
14,	Residual free chlorine	<0.20	mg/lit	0.20	)	IS 3025 (Part 28	5)
15.	Nitrate as NO3	<1.00	mg/lit	45.0	0	IS 3025 (Part 34	i)
16.	Fluoride as F	<0.10	mg/lit	Not Spec	cified	APHA( 23ªEditi	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Spec	cified	APHA( 23 <sup>rd</sup> Editi	on) 5530-B,C
18.	Cyanide	<0.01	mg/lit	mg/lit Not Specified		APHA( 23rdEdition ) 4500 CN -D	
19,	Anionic Detergents	<0.10	mg/lit	Not Specified		APHA( 23rdEdition ) 5540 - C	
1111	Analysis	1	0.1000.00			222432 2224 2224 2234	
20.	Aluminium as Al	<0.01	mg/lit	0.03		IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01		IS 3025 (Part 2)	
22	Boron as B	<0.01	mg/lit	0.50		IS 3025 (Part 2)	
23.	Calcium as Ca	18.43	mg/lit	Not Spec	cified	APHA( 23 <sup>rd</sup> Editi	on) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.00	3	IS 3025 (Part 2)	
25.	Iron as Fe	0.03	mg/lit	1.00	0	IS 3025 (Part 2)	
26.	Lead as Pb	<0.01	mg/lit	0.01	1	IS 3025 (Part 2)	
27,	Magnesium as Mg	16.03	mg/lit	Not Spe	cified	APHA( 23 Editi	on ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Spe	cified	APHA( 23rrEditi	on) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.00	1	IS 3025 (Part 2)	
30.	Zinc as Zn	<0.01	mg/lit	5.00	0	IS 3025 (Part 2)	
31.	Sodium as Na	5.7	mg/R	Not Spe	cified	APHA( 23"Editi	on) 3120 8
32.	Potassium as K	4.2	mg/lit	Not Spe	cified	APHA( 23ªEditi	on) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	5	IS 3025 (Part 2)	

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Authorized Signatory

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id Certificate No.	Certificate No.	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

Report No.	SEE/10/2021/199	Issue Date	20/10/2021
Order / Reference	As per dated 14/10/2021	Sample Received On	14/10/2021
Analysis Started On	14/10/2021	Analysis Completed On	20/10/2021
Name of Client	M/s. Megawide Construction D C/o GMR Goa International Air		

**Microbiological Parameters** 

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

Note: Test results related only to the sample tested.

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1. Shreya Harmalkal 2. Anisha Parab Analyzed by

ADESO-Nandkumar Desai Reviewed By



Anandeep Sawant Authorized Signatory

	1	x 75 - co		Calibration Details		
Sr. No.	Equipment Name	Equipment Id Certificate No.		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	2	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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B-386/307, Plot No. 51, Panel Estate, Reis Magos, Verem, Alto, Old Belles Road, Bardez, Porvoim, Panej-Goa-403 101. Goa State, India. 10 : (0632) 2411322 / 2411325 • E-mail : startabgoa@indiffmail.com Lab. accredited by MOEF.& CIC Velid: up to ID.11.2023 • Certified by ISO 9001:2015 & ISO 45001 :2018 SAVE WATER SAVE UPE

Report No. SEE/10/2021/200			1.	Issue Date	20/10	20/10/2021		
Name of Client M/s. Megawide Construction D C/o GMR Goa International A								
Addro	iss of Client	Mopa, Goa						
Order	r / Reference	As per dated 14/	10/2021 E	Environmental Condit	ion of Lab	Temp <sup>0</sup> C 28.2	Humidity %	
Samp	bling point	Borewell No. 2				20.2	03	
Samp	le details	Ground Water		Date of collect	tion	14/10	/2021	
Samp	ble Collected by	SEEPL Represer	itative	Sample Recei	ved On	14/10	/2021	
Analy	sis Started On	14/10/2021	1993-5491	Analysis Com	pleted On	20/10	/2021	
Samp	ole Container	Glass bottle + PV	/C Can	Sample Quan	Sample Quantity		ml + 4000mi	
Chen	nical Testing							
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method			
1.	рН	6.96	- 22	6.5 - 8.5	IS 3025 (P	art 11)		
2	Turbidity	0.54	NTU	1.00	IS 3025 (Part 5)			
3,	Taste	Agreeable	027	Not Specified	APHA(23	Edition ) 2160	В	
4,	Color	<1.00	Hazen unit	Not Specified	APHA(23	Edition ) 2120	В	
5.	Odour	Agreeable	053	Not Specified	APHA(23	Edition ) 2150	ition ) 2150 B	
6.	Total Alkalinity	90.00	mg/lit	200.00	IS 3025 (P	art 23)		
7.	Total Dissolved Solids	167.00	mg/lit	500.00	IS 3025 (P	art 16)	rt 16)	
8.	Chlorides as Cl	17.51	mg/lit	250.00	IS 3025 (P	art 32)		
9.	Sulphate as SO <sub>4</sub>	<5.00	mg/lit	200.00	IS 3025 (P	'art 24)		
10.	Sulfides	<2.00	mg/iit	Not Specified	APHA(23	Edition ) 4500	S <sup>2</sup> F	
11.	Total Hardness as CaCO	84.00	mg/iit	200.00	IS 3025 (P	Part 21)		
12	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (i	Part 34)		
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 d	of IS 3025 (Part	39)	

HEAD OFF. & LAB.: : Piot No. A-95, Road No. 16, Kiean Negar Road, M.L.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India. (2) : (01-22) 2583 3321 / 2583 3322 / 2583 3322 / 2583 3324 • E-mail : progradekaren/vio.com / psedekar5@gmail.com Page P7606 236 3 Gazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 867 (E).

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 🛈 : (0832) 2437048 / 2437184

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo			Issu	e Date	20/10/2021	
Order / Reference As per dated 14/10/2021		14/10/2021	Sam	ple Received On	14/10/2021	
Analy	ysis Started On	14/10/2021		Ana	lysis Completed On	20/10/2021
Nam	e of Client		de Construct oa Internation	ion DMCC tal Airport Limited		
Cher	nical Testing					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per 10500)	and the second se	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)
15.	Nitrate as NO2	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specifier	d APHA( 23=Edit	ion) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specifie	d APHA( 23/Edit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 4500 CND
19.	Anionic Detergents	<0.10	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 5540 – C
letai	Analysis	1				
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23,	Calcium as Ca	18.43	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 3500Ca B
24	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.28	mg/lit	1.00	IS 3025 (Part 2	3
26.	Lead as Pb	<0.01	mg/iit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	10.68	mg/iit	Not Specifier	d APHA( 23"Edit	ion) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specifier	d APHA( 23"Edit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	6.20	mg/lit	Not Specifier	d APHA( 23#Edit	ion) 3120 B
32	Potassium as K	5.00	mg/lit	Not Specifie	d APHA( 23"Edit	ion ) 3120 B
33	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	1

Analyzed by on Reviewed By

Anaideep Sawant Authorized Signatory

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Report No.	SEE/10/2021/200	Issue Date	20/10/2021
Order / Reference	As per dated 14/10/2021	Sample Received On	14/10/2021
Analysis Started On	14/10/2021	Analysis Completed On	20/10/2021
Name of Client	M/s. Megawide Construction D C/o GMR Goa International Air		

Microbiological Parameters

Sr. No,	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34,	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 234Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>st</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NOPPON Nandkumar Desai Reviewed By



Anapopep Sawant Authorized Signatory

	Equipment Name	Equipment Id		Calibration Details		
Sr. No,			Certificate No.	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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SEWE LUFTER SINEURE

		ANALYS	IS REPOR	RT FOR	WATER SAMP	LE			
Repo	rt No.	1		Issue Date			20/10/2021		
Name	e of Client	M/s. Megawide C C/o GMR Goa In							
Addre	ess of Client	Mopa, Goa							
nu.	Deleteration	All sold and the	40.0004	Envir	onenental Condit	ion of Lab	Temp	° C	Humidity %
Orde	/ Reference	As per dated 14/	As per dated 14/10/2021 Envir		ronmental Condition of Lab		28	.2	69
Sam	oling point	UG-Tank	UG-Tank						
Sam	ole details	Treated Water sa	reated Water sample		Date of collection			14/10/2021	
Samp	e Collected by	SEEPL Represen	Representative		Sample Received On			14/10/2021	
Analy	sis Started On	14/10/2021	4/10/2021		Analysis Completed On			20/10/	2021
Samp	ole Container	Glass bottle	Glass bottle		Sample Quantity			5000 ml	
Chen	nical Testing								
Sr. No,	Parameter	Result	Unit		IS desirable mit (As per IS 10500)		Me	ethod	
1.	pН	6.90			6.5 - 8.5	IS 3025 (P	art 11)		
2.	Turbidity	0.30	NTU		1.00	IS 3025 (P	art 5)		
З.	Taste	Agreeable	1.00	1	Not Specified	APHA(23	Edition )	2160 8	в
			122			Contraction of the second			

З,	Taste	Agreeable		Not Specified	APHA( 23 <sup>st</sup> Edition ) 2160 B	
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23stEdition ) 2120 B	
5.	Odour	Agreeable		Not Specified	APHA( 23rdEdition ) 2150 B	
6.	Total Alkalinity	36.00	mg/lit	200.00	IS 3025 (Part 23)	
7.	Total Dissolved Solids	75.00	mg/lit	500.00	IS 3025 (Part 16)	
8	Chlorides as Cl	14.01	mg/lit	250.00	IS 3025 (Part 32)	
9,	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (Part 24)	
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23rdEdition ) 4500 S2F	
11.	Total Hardness as CaCO <sub>3</sub>	44.00	mg/R	200.00	IS 3025 (Part 21)	
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)	
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991	

Analyzed by

Reviewed By

Authorized Signatory

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

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

1.1.1.1.1.1.1.1	Report No. SEE/10/2021/201		0.025	e Date	20/10/2021		
Orde	r / Reference	As per dated	14/10/2021	San	ple Received On	14/10/2021	
Analy	vsis Started On	14/10/2021			lysis Completed On	20/10/2021	
Nam	e of Client		de Construct oa Internation	ion DMCC nal Airport Limited			
Cher	nical Testing						
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per 10500)		Method	
14,	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)	
15,	Nitrate as NO3	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)	
16.	Fluoride as F	<0.10	mg/lit	Not Specifie	d APHA( 23#Edit	ion) 4500 F D	
17.	Phenolic compound	<0.02	mg/lit	Not Specifie	d APHA( 23#Edit	ion ) 5530-B,C	
18,	Cyanide	<0.01	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 4500 CND	
19.	Anionic Detergents	<0.10	mg/lit	Not Specifie	d APHA( 23r#Edit	APHA( 23rdEdition ) 5540 - C	
letal	Analysis						
20,	Aluminium as Al	<0.01	mg/lit	0.03 IS 3025 (Part		)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)	
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)	
23.	Calcium as Ca	15,23	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)	
25.	Iron as Fe	0.03	mg/lit	1.00	IS 3025 (Part 2	)	
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)	
27.	Magnesium as Mg	0.49	mg/lit	Not Specifie	d APHA( 23/Edit	ion) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit	Not Specifie	d APHA( 23 Edit	ion) 3120 B	
29.	Mercury as Hg	<0.001	mg/iit	0.001	IS 3025 (Part 2	)	
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2	)	
31.	Sodium as Na	1.65	mg/lit	Not Specifie	d APHA( 23 <sup>-e</sup> Edit	ion ) 3120 B	
32	Potassium as K	<1.00	тдліт	Not Specifie	d APHA( 23rdEdit	ion ) 3120 B	
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	9	

2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By

Analideep Sawant Authorized Signatory

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	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	1	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	

Report No.	SEE/10/2021/201	Issue Date	20/10/2021
Order / Reference	As per dated 14/10/2021	Sample Received On	14/10/2021
Analysis Started On	14/10/2021	Analysis Completed On	20/10/2021
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

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

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	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				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	4	Inhouse Calibration		
04.	ICP- OES	Q/162	1	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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/10/2021/202	Issue Date	20/10	/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa	Mopa, Goa					
Order / Reference	As per dated 14/10/2021 Environmental Condition of La		Temp © C	Humidity %			
Order / Reierence	As per dated 14/10/2021	14/10/2021 Environmental Condition of Cab		69			
Sampling point	P.T.B						
Sample details	Drinking Water	Date of collection	14/10/2021				
Sample Collected by	SEEPL Representative	Sample Received On	14/10/2021				
Analysis Started On	14/10/2021	Analysis Completed On	20/10	/2021			
Sample Container	Glass bottle	Sample Quantity	1000	1000 ml			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>st</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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-		Equipment Certificate		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	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	26/08/204-	
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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/10/2021/203	Issue Date	20/10	0/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client Mopa, Goa							
Order / Reference	Order / Reference As per dated 14/10/2021 Environmental Condition of Lab		Temp ° C	Humidity %			
Cruer / Reidrenue	As per dated Partorzoz I	CITATION THE SET OVERALEST OF COU	28.2	69			
Sampling point	V.N.C Colony						
Sample details	Drinking Water	Date of collection	14/10/2021				
Sample Collected by	SEEPL Representative	Sample Received On	14/10	0/2021			
Analysis Started On	14/10/2021	Analysis Completed On	20/1	)/2021			
Sample Container	Glass bottle	Glass bottle Sample Quantity					

Microbiological Parameters

1. MPN Absent MPNIndex/100ml N	nit (As per IS Method 10500)
	ot Specified APHA( 23 <sup>or</sup> Edition ) 9221-B
2. E.coli at 44.5°C for 24hrs. Absent MPNIndex/100ml N	ot Specified APHA( 23 <sup>st</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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-		Equipment Id	Certificate No.	Calibration Details		
Sr. No.	Equipment Name			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	26/08/20	
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 REPOR	RT FOR WATER SAMPLE						
Report No.	SEE/10/2021/204	Issue Date	20/10	/2021				
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa							
Order / Reference	rder / Reference As per dated 14/10/2021 Environmental Condition of Lab		Temp © C	Humidity %				
Of del 7 Metereside	Ha per dateu Har Torzuz I	Crimenting of antion of con-	28.2	69				
Sampling point	R.R. Canteen							
Sample details	Drinking Water	Date of collection	14/10	/2021				
Sample Collected by	SEEPL Representative	Sample Received On	14/10/2021					
Analysis Started On	14/10/2021	Analysis Completed On	20/10	/2021				
Sample Container	Glass bottle	Sample Quantity	1000	mi				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
2	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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		Equipment Id	Certificate No.	Calibration Details		
Sr. No.	Equipment Name			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	26/08/26	
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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/10/2021/205	Issue Date	20/10	/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 14/10/2021	21 Environmental Condition of Lab		Humidity %			
Cidel / Neletence	As per dated initiated	Environmental contactor of cost	28.2	69			
Sampling point	LSC Colony						
Sample details	Drinking Water	Date of collection	14/10	/2021			
Sample Collected by	SEEPL Representative	Sample Received On	14/10/2021				
Analysis Started On	14/10/2021	Analysis Completed On	20/10/2021				
Sample Container	Glass bottle	Sample Quantity	1000	mi			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
2	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>st</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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		Equipment Id	Certificate No.	Calibration Details		
Sr. No.	Equipment Name			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	26/08/20.	
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 REPO	ORT FOR	WATER SAMPLE	10	
Report No.	SEE/10/2021/345	SEE/10/2021/345		30/10/2021	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited		
Address of Client	Mopa, Goa				
0.0.10.0	Logical APURPARA	1000000			Humidity %
Order / Reference	As per dated 25/10/2021	5/10/2021 Environmental Condition of Lab		28.2	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	STP				
Sample details	Inlet Water		Date of collection	25/10/2021	
Sample Collected by	SEEPL Representative		Sample Received On	25/10/2021	
Analysis Started On	25/10/2021		Analysis Completed On	30/10/2021	
Sample Container	Glass Bottle + PVC Can	Glass Bottle + PVC Can		1000 ml + 1000ml	

Sr. No.	Parameters	Results	Unit	Method
1.	pН	4.30		APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	2040.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27 <sup>st</sup> C 3 day)(BOD)	599.94	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	260.00	mg/lit	APHA( 23 <sup>re</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	16.00	mg/it	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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NORSON Nandkumar Desai Reviewed By



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 Plot No. A-85, Road No. 16, Kisen Neger Road, M.I.D.C. Wagle Industrial Arms, Thane - 400-604, Maharashtra State, India.
 Plot No. A-85, Road No. 16, Kisen Neger Road, M.I.D.C. Wagle Industrial Arms, Thane - 400-604, Maharashtra State, India.
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 Plana Page 96, Kisen Page 96, Ki

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/10/2021/346		Issue Date	30/10/2021		21
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited			
Address of Client	Mopa, Goa					
A					np ° C	Humidity %
Order / Reference	eference As per dated 25/10/2021 En		nvironmental Condition of Lab		28.2	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		-10
Sampling point	STP					
Sample details	Outlet Water		Date of collection	2	25/10/2021	
Sample Collected by	SEEPL Representative		Sample Received On		25/10/2021	
Analysis Started On	25/10/2021		Analysis Completed On		30/10/2021	
Sample Container	Glass Bottle + PVC Can		Sample Quantity		1000 ml + 1000ml	

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Chem	IC3I	Para	meters	
and all the		1, 111, 14		

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	8.03		5.5 - 9.0	APHA( 23*Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	140.00	mg/lit	250.00	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	26.25	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	62.00	mg/lit	100.00	APHA( 23rdition ) 2540-D
5,	Oil & Grease (O & G)	6.40	mg/lit	10.00	APHA( 23/=Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/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 REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/10/2021/206		Issue Date	20/10/20	21
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa	12.0.00			
Address of Client	Mopa, Goa				
Order / Reference	As peridated 44/40/0001	Environmental Condition of Lab		Temp <sup>a</sup> C	Humidity %
	As per dated 14/10/2021			28.2	69
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	STP (KMV)		Annual al ann a' thair.		
Sample details	Inlet Water		Date of collection	14/10/2021	
Sample Collected by	SEEPL Representative		Sample Received On	14/10/2021	
Analysis Started On	14/10/2021	14/10/2021		20/10/2021	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

#### **Chemical Parameters**

Sr. No.	Parameters	Results	Unit	Method
1.	рН	6.15	- :	APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B
2,	Chemical Oxygen Demand (COD)	736.00	mg/lit	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27%C 3 day)(BOD)	230.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	189.00	mgAit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	10.60	mg/īit	APHA( 23 <sup>rd</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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				Calibrat	ion Details
Sr. No.	Equipment Name	Equipment Id	ent Certificate No.	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 REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/10/2021/207		issue Date	20/10/2021		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited			
Address of Client	Mopa, Goa					
Outer ( Balances	As per dated 14/10/2021 Enviro		nmental Condition of Lab	Temp <sup>6</sup> C	Humidity %	
Order / Reference			menal condition of Lab	28.2	69	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP (KMV)		a chronol than we			
Sample details	Outlet Water		Date of collection	14/10/2021		
Sample Collected by	SEEPL Representative		Sample Received On	14/10/2021		
Analysis Started On	14/10/2021		Analysis Completed On	20/10/20	20/10/2021	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	7.51		5.5-9.0	APHA(23ªEdition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	28.00	mg/lit	50.00	APHA( 23/8Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.25	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	10.00	APHA( 23"Edition ) 5520-O &G
6.	Ammonia	2.80	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	4.37	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### **Microbiological Parameters**

8.	Faecal coliforms at 44.5°C for 24 hrs.	58	MPN Index/100ml	100	APHA ( 23 <sup>rd</sup> Edition ) 9221-E	
----	---	----	--------------------	-----	--	--

Note: Test results related only to the sample tested.

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1. Shweta Sawant 2. Anisha Parab August Analyzed By

NORSO Nandkumar Desai Reviewed By



Anaddeep Sawant Authorized Signatory

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				Calibration Details			
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	Q/062	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	26/08/20		
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		
				() ()			



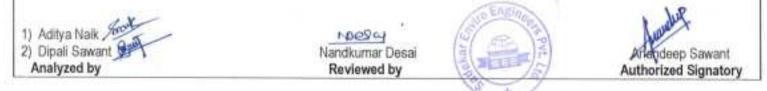
B-305/307, Picc No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betm Hoad, Bardez, Porvorim, Panaj-Goa 403 101. Gos State, India, © : (0832) 24113227 2411323 • E-mail : startatigue@redffmat.com Lab. accredited by/MCEF.& CC Valid: up 1o 03: 11.2023 ★ Certified by ISO 9001:2015 & ISO 45001 : 2018 SAME WHITER SAME UPE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	G REF	POF	RT		
Rep	ort Date	02/12/20	21							
Nan	ne of Client			onstructio ernational	n DMCC Airport Limited					
Add	lress of Client	Mopa, Goa	1							
Sam	pling Plan	SEEPL/LE	/FMT-	54 Sa	ampling Procedure I	No.	5	SEEPL/QSP-1	0	
Sam	ple Collected I	By SEEPL Re	present	ative				112		
Mot	nth of Samplin	g November	2021							
		90-0		AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Mopa	Boundary	(Goa State) (G-A1)					_
Ave	rage Ambient	Temperature (°C)	30.8	Average	e Humidity (%)	7	5	Latitude	N 15º45'	51.1"
Âve	rage Wind Spe	ed (km/hr)	1.6	Average	Wind direction (De	g) 2	19	Longitude	E 73º56'3	32.4"
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (API	- N	411)		
Sr.	Date of	Report No.		PARAMETERS				ERS		
No Sampling Report No.		Report No.		PM <sub>10</sub>	PM2.5	SO:	1	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021/	0045	32.59	18.81	<3.0	0	6.58	0.06	54.25
2.	05/11/2021	SEE/AR/11/2021/	0140	15.23	6.79	4.4	5	<6.00	0.05	23.31
3.	08/11/2021	SEE/AR/11/2021/	0179	57.53	25.70	5.60	)	18.16	0.07	85.00
4.	11/11/2021	SEE/AR/11/2021/	0242	71.89	47.06	5.18	3	17.84	0.06	122.00
5,	15/11/2021	SEE/AR/11/2021/	0305	25.22	17.61	9.8	8	18.96	0.05	43.82
б.	18/11/2021	SEE/AR/11/2021/	0355	48.12	30.49	3.9	2	11.29	0.03	80.08
7,	22/11/2021	SEE/AR/11/2021/	0471	23.29	7.39	3.7	E.	6.47	0.06	31.34
8.	25/11/2021	SEE/AR/11/2021/	0543	16.86	5.04	4.0	)	8.41	0.05	22.39
9.	29/11/2021	SEE/AR/11/2021,	0593	25.47	11.25	4.9	)	<6.00	0.05	37.20
	NAA	QS Limits*		100	60	80		80	4	2
		Units		μg/ m <sup>a</sup>	µg/m³	µg/r	n <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part )		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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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 🕐 : (0832) 2437048 / 2437164

#### 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	

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



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		AMBI	ENT A	AIR QUA	LITY MONITORI	NG	REPO	RT			
Rep	ort Date	02/12/2	021								
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited											
Add	ress of Client	Mopa, G	oa			_		3			
Sam	pling Plan	SEEPL/I	.D/FM	T-54	Sampling Procedu	re No	) —	SEEPL/QSI	P-10		
Sam	ple Collected I	By SEEPL R	eprese	ntative							
Mor	th of Samplin	g Nov202	1			_	_				
				AMBIEN	IT AIR LOCATION						
Loc	ation of ambie	nt air station	Shen	necheadva	n Boundary(Goa St	ate) (	G-A2)				
Ave	rage Ambient'	Temperature (°C)	30.4	Averag	e Humidity (%)	_	72	Latitude	N 15º42'0	6.1"	
Ave	rage Wind Spe	ed (km/hr)	1.2	Averag	e Wind direction (E	)eg]	234	Longitude	E 73º49'2	1.5″	
Inst	ruments Used		FPS(	APM-550)	, RDS(APM-460) &	GPS (	APM -	411)			
Sr.	Date of	Date of Decent N			PARAMETERS						
No	Sampling	Report No.	Report No.		PM <sub>2.5</sub>	SO <sub>2</sub>		NOx	CO	SPM	
1.	01/11/2021	SEE/AR/11/2021,	0046	24.79	17.27	3.	67	9.95	0.05	43.90	
2.	05/11/2021	SEE/AR/11/2021,	0141	19.28	11.73	<3	.00	7.45	0.03	31.61	
З.	08/11/2021	SEE/AR/11/2021	/0180	58.34	21.01	10.13		9.25	0.06	81.70	
4.	11/11/2021	SEE/AR/11/2021/	0243	76.71	37.13	12	.63	13,93	0.08	116.4	
5.	15/11/2021	SEE/AR/11/2021	/0306	24.72	11.03	5.	24	10.88	0.07	37.25	
6.	18/11/2021	SEE/AR/11/2021	0356	36.87	17.32	4.	42	9.91	0.05	54.91	
7,	22/11/2021	SEE/AR/11/2021	/0472	20.39	6.44	4.	09	<6.00	0.03	26.95	
8.	25/11/2021	SEE/AR/11/2021,	/0544	26.68	13.16	<3	.00	10.21	0.07	40.42	
9,	29/11/2021	SEE/AR/11/2021,	0594	93.56	52.89	<3	.00	<6.00	0.06	149.0	
_	NAA	QS Limits*		100	60	8	0	80	4	-	
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg	/m <sup>a</sup>	µg/m³	mg/m <sup>3</sup>	µg/m	
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 1 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 518 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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NOESO Nandkumar Desai Reviewed by

deep Sawant Authorized Signatory

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 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	

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

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



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		AMB	ENT A	IR QUA	LITY MONITORI	NG F	EPO	RT		
Rep	ort Date	02/12/2	2021							
Nan	ne of Client		A		tion DMCC al Airport Limited					
Add	lress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procedu	re No	ē.	SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL F	eprese	ntative						
Mot	nth of Sampling	g Nov202	1							
				AMBIEN	IT AIR LOCATION					
Loc	ation of ambie	nt air station	Nagz	ar(Goa Sta	ate) (G-A3)					
Ave	rage Ambient	Temperature (*C)	29.9	Averag	e Humidity (%)		75	Latitude	N 15º45'3	7.3"
Average Wind Speed (km/hr) 2.1			Averag	ge Wind direction (Deg) 254		Longitude	E 73º53'1	4.22"		
Inst	truments Used		FPS(	APM-550)	, RDS(APM-460) &	GPS (	APM -	411)		
Sr.	Date of	Demost No.	64	PARAMETERS						
No	Sampling	Report No.	eport No.		PM <sub>2.5</sub>	S	Dz	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021	/0047	21.35	16.72	<3	.00	<6.00	0.03	38,92
2.	05/11/2021	SEE/AR/11/2021	/0142	20.45	13.43	<3	.00	<6.00	0.06	34.13
3.	08/11/2021	SEE/AR/11/2021	/0181	52.97	19.92	<3	.00	8.59	0.05	75.00
4.	11/11/2021	SEE/AR/11/2021	/0244	57.69	34.81	3.	71	13.90	0.07	93.87
5.	15/11/2021	SEE/AR/11/2021	/0307	29.03	13,39	7.	21	7.04	0.03	43.10
б.	18/11/2021	SEE/AR/11/2021	/0357	22.19	6.11	4.	73	6.85	0.05	29,17
7.	22/11/2021	SEE/AR/11/2021	/0473	16.82	5.16	<3	.00	<6.00	0.07	22.39
8.	25/11/2021	SEE/AR/11/2021	/0545	22.20	12.89	<3	.00	8.70	0.06	35.32
9,	29/11/2021	SEE/AR/11/2021	/0595	26.65	5.57	<3	.00	<6.00	0.05	32.87
	NAA	QS Limits*		100	60	8	0	80	4	÷.
		Units		µg/ m <sup>3</sup>	µg/m³	μg	/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		i182 1.02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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: 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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#### 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

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

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



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		AMB	ENT A	AIR QUAI	LITY MONITORIN	NG F	EPO	RT		
Rep	ort Date	02/12/2	2021							
Nan	ne of Client		6.4		tion DMCC al Airport Limited					
Add	lress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procedur	e No	8	SEEPL/QSI	P-10	
Sam	ple Collected I	By SEEPL F	eprese	ntative	2 7 7					
Moi	nth of Sampling	g Nov202	1							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Purv	a Casarvai	nem (Goa State)(G-	A4)				
Ave	rage Ambient'	Temperature (°C)	30.1	Averag	e Humidity (%)		70	Latitude	N 15º41'4	1.9"
Ave	rage Wind Spe	ed (km/hr)	1.8	Averag	ge Wind direction (Deg) 202		Longitude	E 73º50'16.6"		
Inst	ruments Used		FPS(	APM-550)	, RDS(APM-460) &G	SPS (	APM -	411)		
Sr.	Sr. Date of Report No. PARAMETERS									
No	Sampling	Report No.	teport No.		PM2.5	S	02	NO <sub>X</sub>	CO	SPM
1.	01/11/2021	SEE/AR/11/2021	/0048	29.03	15.43	<3	00.	6.07	0.05	46.71
2,	05/11/2021	SEE/AR/11/2021	/0143	16.70	8.57	<	.00	6.51	0.03	26.53
З.	08/11/2021	SEE/AR/11/2021	/0182	44.52	20.50	B	.11	14.02	0.06	67.81
4.	11/11/2021	SEE/AR/11/2021	/0245	72.37	42.50	7	15	9.57	0.07	118.0
5.	15/11/2021	SEE/AR/11/2021	/0308	37.84	21.58	8	.70	9.02	0.05	61.55
6;	18/11/2021	SEE/AR/11/2021	/0358	30.97	8,77	<	3.00	6.91	0.03	40.68
7.	22/11/2021	SEE/AR/11/2021	/0474	18.37	7.07	3	22	<6.00	0.05	25.77
8.	25/11/2021	SEE/AR/11/2021	/0546	21.35	13.51	<	3.00	<6.00	0.05	35.69
9.	29/11/2021	SEE/AR/11/2021	/0596	43.88	20.33	<	3.00	<6.00	0.06	65.32
1.1	NAA	QS Limits*		100	60	1	30	80	4	
		Units		µg/ m <sup>3</sup>	µg/m³	μg	/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 rt 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

1) Aditya Naik NO EPG 2) Dipali Sawant 😕 Nandkumar Desai Apartideep Sawant Analyzed by Reviewed by Authorized Signatory

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.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. 299-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	<b>Calibration due date</b>
01	FP5 - APM 550 MINI	LES-CCL/FF/RF/SC/3400	15/07/2021	14/07/2022

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

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



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		AMB	ENT A	AIR QUAI	LITY MONITORIN	IG REP	ORT		
Rep	ort Date	02/12/2	021						
Name of Client M/s. Megawid C/o GMR Goa					ion DMCC al Airport Limited				
Add	iress of Client	Mopa, Ge	ba						
Sampling Plan SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL/QSP-10									
Sam	ple Collected I	By SEEPL R	eprese	ntative			1912		
Mor	nth of Sampling	g Nov2021	L						
				AMBIEN	IT AIR LOCATION				
Loc	ation of ambie	nt air station	Khajr	te Amere F	Porscodem (Goa Stat	e) (G-A5	)		
Ave	Average Ambient Temperature (°C) 31.2			Average	Humidity (%)	74	Latitude	N 15º40'3	8.0"
Average Wind Speed (km/hr) 1.6					Wind direction (De	607 L	0	E 73º46'2	1.2"
Inst	ruments Used		FPS(/	APM-550),	RDS(APM-460) & GI	PS (APM	- 411)		
Sr.	Date of Report No. PARAMETERS								
No	Sampling	nuport no.	OIT NO.	PMto	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021/	0049	28.09	19.84	<3.00	7.41	0.05	49,48
2.	05/11/2021	SEE/AR/11/2021/	0144	21.67	12.10	<3.00	6.65	0.03	35.13
3.	08/11/2021	SEE/AR/11/2021/	0183	53.64	13.85	<3.00	15.99	0.07	69.30
4.	11/11/2021	SEE/AR/11/2021/	0246	81.31	43.16	3.86	14.12	0.05	127.0
5,	15/11/2021	SEE/AR/11/2021/	0309	26.99	13.60	<3.00	10.35	0.06	42.27
6.	18/11/2021	SEE/AR/11/2021/	0359	31.65	15.34	<3.00	7.30	0.03	48.73
7,	22/11/2021	SEE/AR/11/2021/	0475	15.99	5.24	<3.00	<6.00	0.06	21.47
8.	25/11/2021	SEE/AR/11/2021/	0547	21.06	14.72	3.11	6.71	0.05	36,48
9.	29/11/2021	SEE/AR/11/2021/	0597	23.62	15.09	<3.00	<6.00	0.03	39.61
	NAA	QS Limits*		100	60	80	80	4	
		Units		$\mu g/m^3$	µg/m²	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
_	3	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1S 5182 (Part 02		IS 5182( Part 10)	IS 5180 Part IV

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

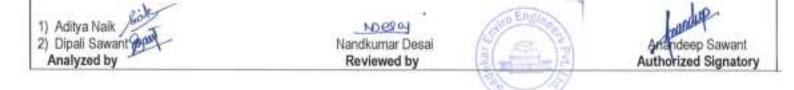
Note : Test results related only to the sample tested.

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

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BRANCH OFF. (310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, Jedia (0) (0832) 2437048 / 2437164 E-mail: sadekanenviro@rediffmail.com \* Website : www.sadekanenviro.com + CIN - U45209MH1966PTC-116379

#### 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 14/07/2022	
01	FPS - APM 550 MINI	LES-CCL/FF/RF/SC/3401	15/07/2021		

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

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



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		AMBI	ENT A	IR QUALI	TY MONITORIN	G REPO	RT		
Rep	ort Date	02/12/2					_		
	e of Client	M/s. Meg C/o GMR	şawide . Goa in	Construction	on DMCC I Airport Limited				
Add	ress of Client	Mopa, Go							
Sam	pling Plan	SEEPL/L	D/FM1	r- 54	Sampling Proced	ure No.	SEEPL/QSF	2+10	
Sam	ple Collected E	By SEEPL R	eprese	ntative					
Mor	th of Sampling	s Nov2021	Ú.						
					AIR LOCATION				
Loca	ation of ambien	nt air station	Rajvi	A CONTRACT OF A	xem (Goa State)(G-				0.08
The bit while a station to the termine of the state of th			and the second sec	Iumidity (%)	72	Latitude	N 15048'4		
Average Wind Speed (km/hr) 1.5				Average Wind direction (Deg) 224 Longitude E 73%				0.2	
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G				
Sr.	Sr. Date of Panaet No. PARAMETERS			1 220 1					
No	Sampling	Report No.	leport No.		PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021/	0050	32.65	6.69	<3.00	<6.00	0.06	40.00
2.	05/11/2021	SEE/AR/11/2021	/0145	26.87	14.85	<3.00	6.64	0.05	43.29
З.	08/11/2021	SEE/AR/11/2021	/0184	44.38	21.37	6,36	<6.00	0.03	67.90
4.	11/11/2021	SEE/AR/11/2021		84.90	38.76	3.65	9.88	0.06	127.32
5.	15/11/2021	SEE/AR/11/2021	alari mining	24.13	15.72	4.90	7.31	0.05	40.28
6.	18/11/2021	SEE/AR/11/2021	And in case of the local division of the	20.50	13.02	4.04	7.30	0.03	34.16
7.	22/11/2021	SEE/AR/11/2021		12.74	3.45	<3.00	6.47	0.06	16.59
8.	25/11/2021	SEE/AR/11/2021		22.34	13.10	<3.00	7.71	0.05	36.10
9.	29/11/2021	SEE/AR/11/2021		40.58	10.94	<3.00	<6.00	0.03	51.64
10000	and the second state and second state	QS Limits*	0.00.0100	100	60	80	80	4	•
-		Units		µg/m <sup>3</sup>	µg/m <sup>1</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1S 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV)

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

Note : Test results related only to the sample tested.

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

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

1) Aditya Naik NDESCI 2) Dipali Sawant deep Sawant Nandkumar Desai Authorized Signatory Analyzed by Reviewed by

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(58 NO.2024-D1D-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.	Certificate No. Calibrated on	
01	FPS - APM 550 MINI	EI/FF/623	19/02/2021	18/02/2022

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

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



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		AMB	IENT A	AIR QUAL	ITY MONITORI	NG RE	PC	DRT		
Rep	ort Date	02/12/	2021				-			
Nan	ne of Client	and the second	S	Construct	ion DMCC al Airport Limited					
Add	lress of Client	Mopa, G	oa							
San	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Proces	dure N	ο.	SEEPL/QS	P-10	
San	ple Collected	By SEEPL F	leprese	ntative						
Mor	nth of Samplin	g Nov202	1							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Satar	da(Mahar	ashtra State)(M-A1	)				
Ave	rage Ambient	Temperature (°C)	31.2	Average	Humidity (%)	7	4	Latitude	N15º43'0	1.3"
Average Wind Speed (km/hr) 1.6			1,6	Average	e Wind direction (Deg) 254		Longitude	E 73º46'00.2"		
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &0	iPS (Al	PM -	- 411)	4	
Sr.	Date of	Report No.	PARAMETERS							
No	Sampling	Report No.	Report No.		PM <sub>2.5</sub>	SO	2	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021	/0051	21.43	14.97	<3.0	0	<6.00	0.05	37.85
2.	05/11/2021	SEE/AR/11/2021	/0146	18.56	5.66	<3.0	0	<6.00	0.03	24.46
3.	08/11/2021	SEE/AR/11/2021	/0185	37.55	18.50	5.5	0	12.54	0.06	57.23
4.	11/11/2021	SEE/AR/11/2021	/0248	76.97	35.80	<3.0	0	10.06	0.07	116.6
5.	15/11/2021	SEE/AR/11/2021	/0311	23.90	11.73	7,4	0	8.73	0.05	36.26
б.	18/11/2021	SEE/AR/11/2021	/0361	24.42	17.42	7.4	8	<6.00	0.05	42.71
7.	22/11/2021	SEE/AR/11/2021	/0477	13.50	4.24	<3.0	0	<6.00	0.03	18.47
8.	25/11/2021	SEE/AR/11/2021	/0549	19.70	7.28	3.8	1	7.61	0.06	26.83
9.	29/11/2021	SEE/AR/11/2021	/0599	23.80	6.99	<3.0	0	<6.00	0.05	31.02
	NAA	QS Limits*		100	60	80	0	80	4	1
		Units		µg/ m³	µg/m³	µg/r	n <sup>3</sup>	µg/m <sup>2</sup>	mg/m <sup>3</sup>	μg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part )		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.

 Aditya Naik NOCOL 2) Dipali Sawant 🍿 Nandkumar Desai eep Sawant Analyzed by Reviewed by Authonized Signatory

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01 RD5- 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	

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

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



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		AMBI	ENT A	AIR QUAI	LITY MONITORI	NGR	EPC	DRT		
Rep	oort Date	02/12/2	021							
Nar	ne of Client				tion DMCC al Airport Limited					
Add	tress of Client	Mopa, G			- M					
San	npling Plan	SEEPL/1	D/FM	T- 54	Sampling Proce	dure	No,	SEEPL/QS	P-10	
San	ple Collected	By SEEPL R	eprese	ntative						
Mo	nth of Samplin	g Nov2021	1							
				AMBIEN	IT AIR LOCATION					
Loc	ation of ambie	nt air station	Ding	na(Mahara	ashtra State)(M-A2)	)				
Average Ambient Temperature (°C) 30.7			30.7	Average	Humidity (%)		72	Latitude	N 15º46'	12.3*
Average Wind Speed (km/hr) 1.4			1.4	Average	Wind direction (De	ind direction (Deg) 227		Longitude	E 73º49'20.5"	
Inst	truments Used		FPS(.	APM-550),	RDS(APM-460) &0	GPS (7	APM	- 411)		
Sr.	Date of	Perpert No.	Report No. PARAMETERS							
No	Sampling	Report No.	eport No.		PM <sub>2.5</sub>	S	01	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021/	0052	21.45	17.09	<3	.00	<6.00	0.05	39.79
2.	05/11/2021	SEE/AR/11/2021/	0147	18.38	11.02	3.	51	<6.00	0.06	29.76
3,	08/11/2021	SEE/AR/11/2021/	0186	35.60	12.43	7.	14	7.40	0.03	49.36
4.	11/11/2021	SEE/AR/11/2021/	0249	44.81	28.15	<3	.00	8.66	0.05	76.06
5.	15/11/2021	SEE/AR/11/2021/	0312	18.63	11.52	6,	33	6.48	0.03	30.73
6.	18/11/2021	SEE/AR/11/2021/	0362	12.13	6.28	3.	35	7.00	0.06	18.77
7.	22/11/2021	SEE/AR/11/2021/	0478	18.58	8.82	<3	.00	<6.00	0.03	27.58
8.	25/11/2021	SEE/AR/11/2021/	0550	24.09	12.48	<3	,00	6.95	0.05	36.80
9.	29/11/2021	SEE/AR/11/2021/	0600	20.05	8,28	<3	.00	<6.00	0.06	29.79
	NAA	QS Limits*		100	60	8	0	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg	/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	1	Method	_	IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 t 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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1) Aditya Naik 2) Dipali Sawant Analyzed by

Nandkumar Desai Reviewed by



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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(5R 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/5C/3399	15/07/2021	14/07/2022

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

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



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SPIVE LUFTER SAVELIKE

		AMB	IENT	AIR QUA	LITY MONITORI	NG RE	PORT		
Rep	ort Date	02/12/	2021						
Nan	ne of Client			e Construct	tion DMCC al Airport Limited				
Add	lress of Client	Mopa, (	ioa						
Sam	pling Plan	SEEPL/	LD/FM	fT- 54	Sampling Proce	dure No	SEEPL/QS	P-10	
Sam	ple Collected	By SEEPL I	Repres	entative			700		
Mor	nth of Samplin	g Nov202	1						
		1.		AMBIEN	IT AIR LOCATION				
Loca	ation of ambie	nt air station	Net	arde(Mahar	ashtra State)(M-A3	3)			
Ave	rage Ambient	Temperature (°C)	31.4	Average	Humidity (%)	76	Latitude	N 15º46'	11.7"
Ave	rage Wind Spe	eed (km/hr)	1.7	Average	Wind direction (De	g) 26	5 Longitude	E 73º50'	18.0"
Inst	ruments Used		FPS	(APM-550)	RDS(APM-460) &0	GPS (AP	M - 411)		
Sr.	Date of	Report No.				PARAM	IETERS		
No	Sampling	1040000000		PM <sub>10</sub>	PM2.5	SO2	NOx	CO	SPM
1.	01/11/2021	SEE/AR/11/2021	/0053	17.65	7.98	<3.00	< 6,00	0.05	28.06
2.	05/11/2021	SEE/AR/11/2021	/0148	14.68	5.86	<3.00	<6.00	0.03	20.97
3.	08/11/2021	SEE/AR/11/2021	/0187	48.12	17.38	3.84	<6.00	0.06	66.18
4.	11/11/2021	SEE/AR/11/2021	/0250	24.03	14.57	<3.00	7.11	0.05	41.28
5,	15/11/2021	SEE/AR/11/2021	/0313	22.58	6.84	5.63	9.34	0.03	30.31
б.	18/11/2021	SEE/AR/11/2021	/0363	24.03	13.77	<3.00	6.97	0.05	38.29
7,	22/11/2021	SEE/AR/11/2021	/0479	18.85	2.69	<3.00	6.32	0.06	21.71
8.	25/11/2021	SEE/AR/11/2021	/0551	18.54	10.60	<3.00	<6.00	0.03	29.27
9.	29/11/2021	SEE/AR/11/2021	/0601	30.69	13.43	<3.00	< 6.00	0.05	44.62
- 31	NAA	QS Limits*		100	60	80	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m³	µg/m	3 µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0)	a contraction of the second seco	IS 5182{ Part 10}	IS 5182 Part IV

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

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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- : Test methods of analyzed parameters are back side of analysis report.

1) Aditya Naik NDESS 2) Dipali Sawant 👧 Nandkumar Desai Analideep Sawant Analyzed by Reviewed by 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. Maharasihtra State, India. 🕐 : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail : pragsadekanom/ro.com / psadekar5@gmail.com Clazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, 5: O. 857 (E), BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 🛈 : (0832) 2437048 / 2437164

E-mail : sadekarem/im@rediffmail.com • Website : www.sad cananation comt coulding LLD

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No	Calibrated on	Calibration due date
D1	RDS- APM 460 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

#### UV Spectrophotometer

	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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

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



B-206/307, Piot No. 01, Palet Estain, Rein Magan, Veren, Alto, Old Belim Road, Barrier, Pervarim, Penaj-Goa-403 101. Eos State, India. 🕅 .: (0832) 2411322 / 2411323 • E-mill : startabgoa@rediffmail.com

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AMBIENT AIR QUALITY MONITORING REPORT SEE/AR/11/2021/0552 Report No. Date of Issue 01/12/2021 M/s. Megawide Construction DMCC Name of Client C/o GMR Goa international Airport Limited Address of Client Mopa, Goa Sample Collected By SEEPL Representative Environmental condition of Lab Date of Sampling 25/11/2021 Temperature(%C) 28.1 Humidity (%) 69 Analysis Started On 29/11/2021 Analysis Completed On 01/12/2021

#### AMBIENT AIR LOCATION

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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Sciemita Kapdoskar Analyzed by

NES Nandkumar Desai Reviewed by

SAVE WRITER

SEWE UPE

Agendeep Sawant Authorized Signatory

HEAD OFF. & LAB.: 1 Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Ann, Thans - 400 654. Maharashtra State, India. 0 : (01-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : pro@wedekaremvire.com / poedekar5@gmail Page 122 of 430 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

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 SEE/AR/11/2021/0653 Date of Issue 01/12/2021 Report No. M/s. Megawide Construction DMCC Name of Client C/o GMR Goa international Airport Limited Address of Client Mopa, Goa Sample Collected By SEEPL Representative Environmental condition of Lab Date of Sampling 25/11/2021 Temperature(9C) 28.1 Humidity (%) 69 Analysis Started On 29/11/2021 Analysis Completed On 01/12/2021

#### 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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Suamita Kapdoskar Analyzed by

Nandkumar Desai Reviewed by

deep Sawant Authorized Signatory

SHVE WRITER

SAVE LIFE

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagur Road, M.I.D.C. Wagle Industrial Area, There - 400 604. Maharashtra State, India. (): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : pra@stadekaremvin.com / psadekar5@gmail plage 124 of 430 Gazetted By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 857 (E).

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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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SRVE LUPITER SEWELIFE

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AMBIENT AIR QU	ALITY MONITORING	REPORT					
SEE/AR/11/2021/0554	Date of I	Date of Issue		21			
	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Mopa, Goa	Mopa, Goa						
SEEPL Representative	Environmental condition of Lab						
25/11/2021	Temperature(%C)	28.1	Humidity (%)	69			
29/11/2021	29/11/2021 Analysis Completed On 01/12/2021						
	SEE/AR/11/2021/0554 M/s. Megawide Constructio C/o GMR Goa international Mopa, Goa SEEPL Representative 25/11/2021	SEE/AR/11/2021/0554     Date of I       M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited       Mopa, Goa       SEEPL Representative       25/11/2021	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited Mopa, Goa SEEPL Representative Environmen 25/11/2021 Temperature(°C) 28.1	SEE/AR/11/2021/0554     Date of Issue     01/12/202       M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited     01/12/202       Mopa, Goa     SEEPL Representative     Environmental condition of Lab       25/11/2021     Temperature(°C)     28.1     Humidity (%)			

Location of ambient air station	Shemechaadvan Boundary (Goa State)
Instruments Used	Organio 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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Susprita Kapdoskar Analyzed by

NOUS Nandkumar Desai Reviewed by

Amandeep 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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8-306/307, Plot No. 01, Patel Estate. Reis Magos. Venen, Allo, Oki Betin Road, Banley, Porvolin, Panaji-Goa-403 101. Gos filtes, India. (D : (0832) 2411322 / 2411323 \* E-mail : starbabgoa@eediffmail.com

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	NOISE LEVEL MO	DNITORING REPORT					
Report No.	SEE/AR/11/2021/0266-0267, 0423 0530, 0314, 0586, 0615, 0531, 058	#/print13000	02/12/2021				
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport						
Address of Client	Mopa, Goa	Mope, Goa					
Sample Collected By	SEEPL Representative						
Sempling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10				

#### Chemical Testing - Atmospheric Pollution

Sr. No	Date of Monitoring	Report No.	Station	Zone	Sampling Location	Day Tir Sampling Location Noise in				light Time ise in dB(	
IND.	monitoring	N	10	_		Lmin	Lmax	Leq	Lmin	Lmax	Leq
1,	11/11/2021	SEE/AR/11/2021/0266	G-N1	1	Mopa Boundary	30,6	79,7	62.0	30.2	76.9	50.9
2	11/11/2021	SEE/AR/11/2021/0267	G-N2	1	Shemecheedvan Boundary	35,7	86.3	57.8	31.6	78.4	52.7
3.	19/11/2021	SEE/AR/11/2021/0423	G-N3	C	Nagzar	30,7	76.6	59.7	34.8	56.3	43.4
4	19/11/2021	SEE/AR/11/2021/0424	G-N4	R	Purva Casarvamem	33,9	57.7	47.7	31.9	61.7	41.1
5	15/11/2021	SEE/AR/11/2021/0315	G-N5	R	Chandel	30.0	50.9	50.1	30.1	50.9	40.0
6	24/11/2021	SEE/AR/11/2021/0530	G-N6	R	Khajne Amere Porscodem	30.0	54.9	42.4	30.0	49.7	39.6
7.	15/11/2021	SEE/AR/11/2021/0314	G-N7	R	Warkhand	30.0	66.6	52.4	30.0	58.1	40.4
8.	28/11/2021	SEE/AR/11/2021/0586	G-N8	C	Rajvil Wada Torxem	31.9	60.6	53.0	33.2	65.6	45.4
9.	30/11/2021	SEE/AR/11/2021/0615	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvern	30.0	59.9	53.4	30.0	59.8	49.7
10	24/11/2021	SEE/AR/11/2021/0531	M-N1	R	Salarda	30.4	60.7	42.9	30.3	49.8	38.5
11.	28/11/2021	SEE/AR/11/2021/0587	M-N2	R	Dingna	30.0	59.6	45.0	30.1	49.4	36.9
12.	30/11/2021	SEE/AR/11/2021/0616	M-N3	R	Netarde	30.0	70.6	50.2	30.1	59.3	38

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		
100000000	country of Area	Day Time	Night Time	
(A)	Industrial Area (1)	75	70	
(B)	Commercial Area ( C )	65	55	
(C)	Residential Area (R.)	55	45	
(D)	Silence Zone ( S )	50	04	

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

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

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

> Leg 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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NESO Sanjivan Gawas Nandkumar Desai Monitored by Reviewed by

Seep Sawant Authorized Signatory

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#### Calibration Details of Equipment used for Sampling

#### Noise Level Meter No.1(A0913-1393)

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



8-308/307, Piol No. 61, Patel Estato, Huis Magoo, Verren, Alto, Old Butter Road, Bandez, Porvories, Panaji-Gea 403 101. Gos Stale, India. 40 - (0832) 2411322 / 2411323 \* E-mail : startabgosi@rediffmail.com Lab according by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001.2015 & ISO 45001 : 2018

SHOE LEWIS CO. SEWLUEL

		ANALYS	SIS REPO	RT FOR	WATER SAMP	LE			
Repo	rt No.	SEE/11/2021/219			Issue Date	Issue Date		17/11/2021	
Name	of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Addre	ess of Client	Mopa, Goa							
Outer	Deference	As not dated 11	144/0004	Environ	nmontal Conditi	on of 1 sh	Tem	0 ° C	Humidity %
Order / Reference		As per dated 11	As per dated 11/11/2021 Environ			onmental Condition of Lab		1.1	68
Samp	ling point	Borewell 1							
Samp	le details	Ground Water			Date of collection			11/11/2021	
Samp	le Collected by	SEEPL Represe	ntative		Sample Received On			11/11/2021	
Analy	sis Started On	11/11/2021			Analysis Completed On 17/11/202			/2021	
Sample Container Glass bottle		Sample Quantity 5000 mi							
Chen	nical Testing								
Sr. No.	Parameter	Result	Unit		IS desirable mit (As per IS 10500)		М	lethod	
t.	pН	7.12			6.5 - 8.5	IS 3025 (P	art 11)		

No.	- statistics	Trusters	Cint	10500)	
ŧ.,	pН	7.12		6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.70	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	*	Not Specified	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>st</sup> Edition ) 2120 B
5.	Odour	Agreeable		Not Specified	APHA( 23 <sup>st</sup> Edition ) 2150 B
6.	Total Alkalinity	108.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	150.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chiorides as Cl	15.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO <sub>4</sub> -	<5.00	mg/tit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/iit	Not Specified	APHA( 23rdEdition ) 4500 SPF
11.	Total Hardness as CaCO3	108.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Glause 6 of IS 3025 (Part 39)

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NESS Nandkumar Desai Reviewed By



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### Equipment Calibration Details

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo	rt No.	SEE/11/2021/219		Issue	Date	17/11/2021	
Orde	r / Reference	As per dated	r dated 11/11/2021 Sample Received On		e Received On	11/11/2021	
Analy	vsis Started On	11/11/2021		Analys	is Completed On	17/11/2021	
Name	e of Client	M/s. Megawin C/o GMR Go		on DMCC al Airport Limited			
Cher	nical Testing			1 10 1 1 11			
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Method	
14,	Residual free chlorine	<0.20	mg/iit	0.20	IS 3025 (Part 2)	6)	
15.	Nitrate as NO3	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)	
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23#Edit	ion) 4500 F D	
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23rdEdit	ion) 5530-B,C	
18,	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23dEdit	APHA( 23ªEdition ) 4500 CN -D	
19.	Anionic Detergents	<0.10	mg/lit	Not Specified APHA( 23*		ion) 5540 - C	
fetal	Analysis			1			
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)	
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)	
23.	Calcium as Ca	16.83	mg/lit	Not Specified	APHA( 23"Edit	tion) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/H	0.003	IS 3025 (Part 2	2)	
25.	Iron as Fe	0.40	mg/lit	1.00	IS 3025 (Part 2	2)	
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	2)	
27.	Magnesium as Mg	16.12	mg/lit	Not Specified	APHA( 23#Edi	tion) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/iit	Not Specified	APHA( 23rdEdi	tion) 3120 B	
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	2)	
30.	Zinc as Zn	0.02	mg/lit	5.00	IS 3025 (Part 2	2)	
31.	Sodium as Na	19.00	mg/lit	Not Specified	APHA( 23 <sup>st</sup> Ed	tion) 3120 B	
32.	Potassium as K	8.50	mg/lit	Not Specified	APHA( 23//Ed	ition) 3120 8	
33.	Copper as Cu	<0.01	mg/iit	0.05	IS 3025 (Part 3	2)	

1. Shreya Harmaikar 2. Anisha Parab Augurth Analyzed by

Nandkumar Desai Reviewed By Anandeep Sawant Authorized Signatory

### **Equipment Calibration Details**

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2021/08/236	26/08/2021	26/08/2022
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021 26/06/	
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

Report No.	SEE/11/2021/219	Issue Date	17/11/2021			
Order / Reference	As per dated 11/11/2021	Sample Received On	11/11/2021			
Analysis Started On	11/11/2021	Analysis Completed On	17/11/2021			
Name of Client		/s. Megawide Construction DMCC /o GMR Goa International Airport Limited				

**Microbiological Parameters** 

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

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1. Shreya Harmalkar 2. Anisha Parab Analyzed by

-NDESC-Nandkumar Desai Reviewed By

Ananobep Sawant Authorized Signatory

### **Equipment Calibration Details**

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01,	pH Meter	Q/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	18	Inhouse Calibration		
04.	ICP- OES	Q/162	4	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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SPACE OF BELLE

SEVELIFE

		ANALYS	IS REPORT	FOR WATER SAMP	LE			
Repo	rt No.	SEE/11/2021/220	)	Issue Date	17/11	17/11/2021		
Name	o of Client	M/s. Megawide C C/o GMR Goa In						
Addre	ess of Client	Mopa, Goa						
Orde	r / Reference	As per dated 11/	11/2021	Environmental Conditi	on of Lab	Temp <sup>n</sup> C	Humidity %	
Under / Neierenice		1.17,4,574,1		WILL OF LEADING	28.1	68		
Samp	aling point	Borewell No. 2	Borewell No. 2					
Sample details Ground Water		Ground Water		Date of collect	tion	11/11	11/11/2021	
Samp	ble Collected by	ed by SEEPL Representative			Sample Received On			
Analy	sis Started On	Dn 11/11/2021		Analysis Com	Analysis Completed On			
Samp	ole Container	Glass bottle + P\	/C Can	Sample Quantity		1000	ml + 4000ml	
Cher	nical Testing							
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Limit (As per IS		Method	
12	pН	7.43		6.5 - 8.5	IS 3025 (P	25 (Part 11)		
2.	2. Turbidity 0.27 NTU		1.00	IS 3025 (Part 5)				
3. Taste Agreeable -		Not Specified APHA		APHA( 23rdEdition ) 2160 B				
4.	Color	<1.00	Hazen uni	it Not Specified	APHA( 23×	Edition ) 2120	В	
5.	Odour	Agreeable	-	Not Specified	APHA( 23*	Edition ) 2150	В	
	Total Alkelinity	04.00	100.00	200.00	10 2005 /0			

2. An	reya Harmalkar ishe Parab Apastob Ilyzed by		Nandkumar Reviewed	Desai	Avanteep Sawant Authorized Signatory
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
11,	Total Hardness as CaCO <sub>3</sub>	82.00	mg/lit	200.00	IS 3025 (Part 21)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23rdEdition ) 4500 SPF
9.	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (Part 24)
8.	Chlorides as Cl	17.01	mg/lit	250.00	IS 3025 (Part 32)
7.	Total Dissolved Solids	130.00	mg/lit	500.00	IS 3025 (Part 16)
6.	Total Alkalinity	94.00	mg/lit	200,00	IS 3025 (Part 23)
5.	Odour	Agreeable		Not Specified	APHA( 23rdEdition ) 2150 B
4,	Color	<1.00	Hazen unit	Not Specified	APHA( 23 <sup>st</sup> Edition ) 2120 B
9.	1 4510	мулеварио	· ·	Not opechied	APHA( 23*C0001) 2100 B

HEAD OFF, & LAE : Phil No. A 45, Road No. 17, Klass Nagar Road, M.LD C. Wagle Industrial Area, There 400 004, Maharametris State, Infl Page 1 of 3 (2): (91.22) 2563 3321 / 2563 3323 / 2563 3324 / 2563 324 / 2563 2000 / 2563 200 / 2563 200 / 2563 200 / 2563 200 / 25

Gapithel By Ministry of Environment, Forest & Climate Change, Govi Of India, B. O. 857 (E)

### Equipment Calibration Details

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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Repo	ort No. SEE/11/2021/220		Issue	Date	17/11/2021	
Orde	r / Reference	As per dated	11/11/2021	Samp	Sample Received On	
Anai)	vsis Started On	11/11/2021		Analy	sis Completed On	17/11/2021
Nam	e of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited		
Cher	nical Testing				-	
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	5	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 20	5)
15.	Nitrate as NO3	<1.00	mg/iit	45.00	IS 3025 (Part 34	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23ªEdit	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23rdit	on) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23#Edit	on) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23"Edit	on) 5540-C
ietal	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)	
22	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23.	Calcium as Ca	16.83	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.52	mg/lit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	9.71	mg/lit	Not Specified	APHA( 23#Edit	ion) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	0.01	mg/lit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	18.50	mg/lit	Not Specified	APHA( 23rrEdit	ion ) 3120 B
32.	Potassium as K	10.00	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	)

1. Shreya Harmalkar 2. Anisha Parab A poyod Analyzed by

Nandkumar Desai Reviewed By





### Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	1	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	

Report No.	SEE/11/2021/220	Issue Date	17/11/2021
Order / Reference	As per dated 11/11/2021	Sample Received On	11/11/2021
Analysis Started On	11/11/2021	Analysis Completed On	17/11/2021
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

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

Note: Test results related only to the sample tested.

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NOCIO Nandkumar Desai Reviewed By



Anariteep Sawant Authorized Signatory

### **Equipment Calibration Details**

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01,	pH Meter	Q/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	59	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)	0/004	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 REPO	RT FOR WATER SAMPLE			
Report No.	SEE/11/2021/221	Issue Date	17/11/2021		
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			
Address of Client	Mopa, Goa				
Deday   Defermine	Access dated 14144/2021	Environmental Condition of Lab	Temp ® C	Humidity %	
Order / Reference	As per dated 11/11/2021	Environmental Condition of Can	28.1	68	
Sampling point	WTP- (UG-Tank)				
Sample details	Treated Water	Date of collection	11/11	/2021	
Sample Collected by	SEEPL Representative	Sample Received On	11/11	/2021	
Analysis Started On	11/11/2021	Analysis Completed On	17/11/2021		
Sample Container	Glass bottle	Sample Quantity	5000	5000 ml	
Chemical Testing					

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рH	7.08		$6.5 \rightarrow 8.5$	IS 3025 (Part 11)
2	Turbidity	0.45	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable		Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	<u></u>	Not Specified	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	22.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	42.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	14.51	mg/lit	250.00	IS 3025 (Part 32)
9,	Sulphate as SO <sub>4</sub>	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO <sub>3</sub>	28.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39)

Authorized Signatory

HEAD OFF, & LAB : Plot No. 4-05, Road No. 16, Kloan Nager Hoad, M.I.D.C. Wagle Industral Anne, There - 400 504. Mahazashtra State, Indi-Page 1 of 3

Reviewed By

Gazetted By Ministry of Environment, Formal & Olimate Change, Govt Of India, D. O. 667 (E)

Analyzed by

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India Ø : (0832) 2437048 / 2437164 E-mail: satisfarerwindprofilmat.com + Waterle: www.aadebarereim.com + CIN - U452094111098PTC-116379

	Equipment Name	S. 87		Calibration Details		
Sr. No.		Equipment Id Certificate No.	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	<u></u>	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	

Repo	rt No.	SEE/11/2021/221 issue Date		Date	17/11/2021	
Orde	r / Reference	As per dated	11/11/2021	Sampl	Sample Received On	
Analy	vsis Started On	11/11/2021		Analys	is Completed On	17/11/2021
Name	e of Client	M/s. Megawik C/o GMR Ge		on DMCC al Airport Limited		
Cher	nical Testing					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	L.	Method
14	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 20	5)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23//Editi	ion ) 4500 F D
17.	Phenolic compound	<0.02	mgAit	Not Specified	APHA( 23 <sup>nt</sup> Edit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23#Edit	ion) 5540 – C
letal	Analysis					
20.	Aluminium as Al	<0.01	mg/III	0.03	IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)	
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)	
23.	Calcium as Ca	8.01	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3500Ca B
24,	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.32	mg/lit	1.00	IS 3025 (Part 2	)
26,	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	1.94	mg/lit	Not Specified	APHA( 23#Edit	ion) 3500Mg B
28,	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23#Edit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	0.01	mg/lit	5.00	IS 3025 (Part 2	:)
31.	Sodium as Na	4.20	.mg/lit	Not Specified	APHA( 23ªEdit	tion ) 3120 B
32	Potassium as K	0.90	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	tion ) 3120 B
33.	Copper as Cu	< 0.01	mg/lit	0.05	IS 3025 (Part 2	3

2 Anisha Parab Analyzed by

Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

	Equipment Name		Certificate No.	Calibration Details		
Sr. No.		Equipment Id		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	

Report No.	SEE/11/2021/221	Issue Date	17/11/2021
Order / Reference	As per dated 11/11/2021	Sample Received On	11/11/2021
Analysis Started On	11/11/2021	Analysis Completed On	17/11/2021
Name of Client	M/s. Megawide Construction D C/o GMR Goa International Air		

**Microbiological Parameters** 

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37ºC for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-8
35	E coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23ªEdition ) 9221-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.

1. Shreya Harmalkar, 2. Anisha Parab Analyzed by

NDESG Nandkumar Desai Reviewed By



Anandeep Sawant Authorized Signatory

_	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	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	2	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 REPO	RT FOR WATER SAMPLE						
Report No. SEE/11/2021/222 Issue Date 15/11/2021								
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa							
Address of Client	Mopa, Goa							
Order / Reference	As per dated 11/11/2021	ated 11/11/2021 Environmental Condition of Lab Temp ° C		Humidity %				
order i riciorende	No por barbar i in messer	control months construct of Late.	28.1	68				
Sampling point	R.R Canteen							
Sample details	Drinking Water	Date of collection	11/11/2021					
Sample Collected by	SEEPL Representative	Sample Received On	11/11/2021					
Analysis Started On	11/11/2021	Analysis Completed On	15/11	/2021				
Sample Container	Glass bottle	Glass bottle Sample Quantity 1000 ml						

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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

Anisha Parab Analyzed by

NORSON Nandkumar Desai Reviewed By

Ananbeep Sawant Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (0) : (0832) 2437048 / 2437164

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPOR	RT FOR WATER SAMPLE						
Report No.	SEE/11/2021/216	SEE/11/2021/216 Issue Date 15/11/2021						
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa							
Address of Client	Mopa, Goa							
Order / Reference	As per dated 11/11/2021	Environmental Condition of Lab	Temp <sup>0</sup>	G Humidity %				
Order / Melerence	As het ansen in thenet	CINIORINGING CONDICION OF LOD	28.1	68				
Sampling point	V.N.C Colony							
Sample details	Drinking Water	Date of collection	1	1/11/2021				
Sample Collected by	SEEPL Representative	Sample Received On	1	1/11/2021				
Analysis Started On	11/11/2021	Analysis Completed On	1	5/11/2021				
Sample Container	Glass bottle	Sample Quantity	1	000 ml				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
ŧ.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23#Edition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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Anisha Parab Anisha Parab Analyzed by Reviewed By Analyzed Signatory

HEAD OFF, & LAB : Phit No. A-95, Ruad No. 16, Yourn Yagar Road, M.LD.C. Wagle Industrial Annu. Thane - 400 504. Maharashtra State. Indipage 1 of 1

Goosted By Ministry of Environment, Forsel & Climate Change, Govi Ol India, IL D. 057 (E)

BRANCH OFF. 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (2): (0532) 2437048 / 2437184 E-mail:::addeburgevite@redfmail.com \* Website:::www.addeburgevite.com \* CN - U45209Me11008PTC-116379

		le=monuter l'		Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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



B-306/307, Piol No. 81, Patol Estatu, Reis Magos, Venum, Alto, Old Belim Road, Barduz, Porvorim, Paragi Goa-403 101. Gas Stale, India. 40 - (0832) 2411322 / 2411323 \* E-mail : startabpoa@yealflwait.com Lisb accredited by MoRF & CC Valid up to 03.11 2023 + Cartilled by ISO 0001 2015 & ISO 45501 : 2018

SINCLUNCE SAVELEE

	ANALYSIS REPOR	RT FOR WATER SAMPLE			
Report No.	SEE/11/2021/217	Issue Date		15/11/	2021
Name of Client	M/s. Megawide Constructio C/o GMR Gos Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 11/11/2021	2021 Environmental Condition of Lab		mp °C 28.1	Hurnidity % 68
Sampling point	P.T.8				
Sample details	Drinking Water	Date of collection		11/11/2021	
Sample Collected by	SEEPL Representative	Sample Received On		11/11/2021	
Analysis Started On	11/11/2021	Analysis Completed C	n	15/11/2021	
Sample Container	Glass bottle	Sample Quantity		1000	ml

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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tupp Anisha Parab Analyzed by

NORDEL Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

HEAD DFF. & LAB : Plot No. A-85, Ploud No. 16, Knon Neger Roed, M.LD C. Wagle Industrial Ann. There - 400 504. Metacables There, Ind Page 1 of 1 (2): (91-07) 2583 3321 / 2583 3322 / 2583 3325 ( 2583 3324 + E-end : producted annihol com / padekorf@ Page 152 of 430

Qualities by Meniny of Environment, Forest & Clinicle Change, Gevt Of India, S. O. 867 (E)

BRANCH OFF. : 310, Demps Towers, EDC Patte, Panaji-403 001, Goa State, India (2): (0832) 24370487 2437164

E-mail sadekarerwind@exdiffmail.com \* Wobble \_ www.sadekarenvim.com + CIN - U4520040+109887TC-116370

		Contraction of the		Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPOR	RT FOR WA	TER SAMPLE				
Report No. SEE/11/2021/218 Issue Date 17/11/2021							
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 11/11/2021 Environmental		mental Condition of Lah		0 C	Humidity %	
order, indicional	the per union that here?	Environmental condition of Lao		28.1		68	
Sampling point	LSC Colony						
Sample details	Drinking Water	D	ste of collection	11/11/2021		2021	
Sample Collected by	SEEPL Representative	S	Sample Received On		11/11/2021		
Analysis Started On	11/11/2021	A	Analysis Completed On		17/11/2		
Sample Container	Glass bottle	Glass bottle Sample Quantity				ni	

Microbiological Parameters

Sr. No,	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>vd</sup> Edition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>st</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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Anisha Parab

Analyzed by

Nandkumar Desal Reviewed By

Amandeep Sawant Authorized Signatory

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BRANCH OFF. 1 316, Dempo Towers, EDC Patter, Panap-403 001, Gas State, India (D) (0832) 24370487 3437164 E-mail: sadekarenvirodifinalE.com + Website : www.aadekarenviro.com + City - 045209MH1988PTC-116379

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



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Lab according by MoEF & CC Valid up to 03.11.2023 \* Cartified by ISO 9001:2015 & ISO 45001 | 2018

SPINE LUPITER SPACE LIFE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/11/2021/214		Issue Date	17/11/20	21	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited			
Address of Client	Mopa, Goa					
Order / Reference	As per dated 11/11/2021	Antest 11(11/2021		Temp ° C	Humidity %	
	Pro per uniou (11) (1202) En		nmental Condition of Lab	28.1	68	
Sampling Plan	SEEPL/LD/FMT-54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP					
Sample details	Inlet Water		Date of collection	11/11/2021		
Sample Collected by	SEEPL Representative		Sample Received On	11/11/2021		
Analysis Started On	11/11/2021	11/11/2021		17/11/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml +	1000mi	

#### Unemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1,	pH	6.27		APHA( 23=Edition ) 4500 H+-B
2	Chemical Oxygen Demand (COD)	2760.00	mg/lit	APHA( 23redition ) 5220-8
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	800.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	314.00	mg/lit	APHA( 23=Edition ) 2540-D
5.	Oil & Grease (O & G)	21.40	mg/lit	APHA( 23r/Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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Shreya Harmalkar Analyzed By

Nandkumar Desai Reviewed By

Apandeep Sawant Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403.001. Goa State, India (2) : (0832) 2437184 / 2437184 E-mail: sadekarenvrei@rectfmail.com \* Website: www.sadekarenvini.com \* CIN - U45209MH1898PTC-118379

Nesa

Equipment Calibration Details	ils	Detai	ation	Calibra	pment	Equit
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Sr. Equipment Name No.	Equipment Name Equipment Id			Calibrat	ion Details
		Certificate No.	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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SPINE WHEEK SINELINE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/11/2021/215		Issue Date	17/11/20	21	
Name of Client		//s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa					
Order / Reference	An exercised 441440004			Temp <sup>n</sup> C	Humidity %	
Order / Reierence	As per dated 11/11/2021	Enviror	Environmental Condition of Lab		68	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP	Los annaisses ann			11.000	
Sample details	Outlet Water		Date of collection	11/11/2021		
Sample Collected by	SEEPL Representative		Sample Received On	11/11/2021		
Analysis Started On	11/11/2021		Analysis Completed On	17/11/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity 1000 ml		+ 1000ml	

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	7.10		5.5 - 9.0	APHA( 23 <sup>m</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	132.00	mg/lit	250.00	APHA( 23#Edition ) 5220-B
З.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	21.58	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	47.00	mg/lit	100.00	APHA( 23rd Edition ) 2540-D
5.	Oil & Grease (O & G)	6.00	mg/lit	10.00	APHA( 23#Edition ) 5520-0 &G
	the second				TRUCTOR CONTRACTOR OF CONTRACT

Note: Test results related only to the sample tested.

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Shreya Harmalkar Analyzed By

+D.EVA Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

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Gazabled By Ministry of Environment, Peretal & Climate Change, Greet Of India, B. O. 857 (E)

BRANCH OFF. 1 310, Dampo Towers, EDC Partie, Paropi-403 001, Gua Blate, India (2) (0832) 2437048 / 2437164 E-mail: sadotarenviro@vedifinat.com \* Website: www.sadotarenviro.com + CN - U4520946-1998PTC-116379

Equipment Calibration Detail	S
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_				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	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 REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/11/2021/223		Issue Date	17/11/2021			
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 11/11/2021 Enviro		and the second second	Temp <sup>a</sup> C.	Humidity %		
			nmental Condition of Lab	28.1	68		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10			
Sampling point	STP (KMV)			A			
Sample detaits	Inlet Water		Date of collection	11/11/2021			
Sample Collected by	SEEPL Representative	SEEPL Representative		11/11/2021			
Analysis Started On	11/11/2021		Analysis Completed On	17/11/2021			
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml +	1000ml		

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method	
1.	pН	6.20		APHA( 23*/Edition ) 4500 H+-B	
2.	Chemical Oxygen Demand (COD)	552.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B	
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	185.64	mg/lit	IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	153.00	mg/lit	APHA( 23#Edilion ) 2540-D	
5.	Oli & Grease (O & G)	12.00	mg/lit	APHA( 23rdEdition ) 5520-0 &G	

Note: Test results related only to the sample tested.

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NDE80 Nandkumar Desai Reviewed By

Ananyeep Sawant Authorized Signatory

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	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 REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/11/2021/224		Issue Date	17/11/	2021		
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
6.30.16 K.0.0			and the file of the	Temp ° (	Humidity %		
Order / Reference	As per dated 11/11/2021	Environ	nmental Condition of Lab	28,1	68		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/Q	SP-10		
Sampling point	STP (KMV)						
Sample details	Outlet Water		Date of collection	11/11/2021			
Sample Collected by	SEEPL Representative		Sample Received On	11/11/2021			
Analysis Started On	11/11/2021		Analysis Completed On	17/11/2021			
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml			

Sr. No.	Parameters	Results	Unit	"Limits	Method
1.	рН	7.39		5.5 - 9.0	APHA( 23/1Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	20.00	mg/lit	50.00	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	5.00	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	10.00	mg/lit	20.00	APHA( 23 <sup>sted</sup> ition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA( 23#Edition ) 5520-O &G
6.	Ammonia	3.34	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	7.00	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### **Microbiological Parameters**

8.	Faecal coliforms at 44.5°C for 24 hrs.	63	MPN Index/100ml	100	APHA ( 23reEdition ) 9221-E	
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Note: Test results related only to the sample tested.

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1. Shweta Sawant Noucons 2. Anisha Parab 2. Anisha Parab Analyzed By

Nandkumar Desai Reviewed By Agangeep Sawant

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				Calibration Details			
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	Q/062	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		



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		AMB	IENT	AIR QUAI	LITY MONITORIN	NG R	EPO	RT		
Rep	ort Date	01/01/2	01/01/2022							
Nan	ne of Client	M/e Magawide Construction DMCC								
Add	iress of Client	Mopa, Go	Mopa, Goa							
San	nplīng Plan	SEEPL/L	D/FMT	- 54 S	ampling Procedure	No.		SEEPL/QSP-1	0	
San	ple Collected	By SEEPL R	preser	itative						
Mor	nth of Samplin	g Decembe	r 2021							
		- int		AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Mop	a Boundar	y (Goa State) (G-A1)	Í.				
Ave	rage Ambient	Temperature (°C)	31.4	Average	e Humidity (%)		74	Latitude	N 15º45'	51.1"
Ave	rage Wind Spe	ed (km/hr)	1.2	Average	e Wind direction (D	eg)	213	3 Longitude E 73º56'3		32.4"
Inst	truments Used		FPS(	APM-550)	, RDS(APM-460) &G	PS (/	NPM -	411)		
Sr. Date of			PARAMETERS							
No	Sampling	Report No.		PM <sub>10</sub>	PM25	\$	502	NOx	CO	SPM
1.	02/12/2021	SEE/AR/12/2021	/0063	7.22	<5.00	1	3.00	6.19	0.05	9.88
2.	06/12/2021	SEE/AR/12/2021	/0198	18.22	12.81	<	3.00	13.60	0.06	31.53
3.	09/12/2021	SEE/AR/12/2021	/0364	34.36	18.88	7	.15	7.32	0.03	54.27
4.	13/12/2021	SEE/AR/12/2021	/0436	41.69	22.58	<	3.00	5.76	0.03	65.34
5,	16/12/2021	SEE/AR/12/2021	/0540	61.51	14.55	3	.23	12.02	0.05	78.63
ű,	20/12/2021	SEE/AR/12/2021	/0634	55.38	17.59	3	.36	8.06	0.06	73.51
7.	23/12/2021	SEE/AR/12/2021	/0715	81.49	32.60	<	3.00	15.08	0.07	116.4
8.	27/12/2021	SEE/AR/12/2021	/0837	44.01	19.54	3	.88	6.72	0.08	65.93
9,	30/12/2021	SEE/AR/12/2021	/0896	70.74	23.49	4	17	6.23	0.10	97.52
	NAA	QS Limits*		100	60		80	80 ;	4	
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	14	g/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEEA.D/SOP-AA-04		5182 irt 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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Nandkumar Desai



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BRANCH OFF. 1 310, Demoe Towers, EDC Patto, Panaji-400 001, Goa State, India (7): (0832) 24370487 2437564 E-mail: cadekanemico@red@nail.com + Website : www.tadekanemicirc.com + CIN - 046209MPr0988PTC-110379

#### 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)	E1/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)	20/11/2021	19/11/2022



IS-308/307, Plot No. 61, Patel Entate, Rois Magos, Venem, Alto, Chil Betim Road, Bardez, Porvoitm, Panaji-Goai-403 101. Gen State, Indu. 🖏 : (0832) 2411322 / 2411323 \* E-mail : startsbyce@iedifiead.com Lab accredited by MoEF & GC Valid up to 03.11.2003 + Certified by ISO 9501-2015 & ISO 45001 : 2018

SZWELLIPTERY SPACIEFE

		AMB	ENT A	IR QUA	LITY MONITORI	NGR	EPOI	RT		
Rep	ort Date	01/01/2	2022							
Nan	ne of Client		4/s. Megawide Construction DMCC L/o GMR Goa International Airport Limited							
Add	lress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/J	.D/FM	Г- 54	Sampling Procedu	re No	i	SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative						
Mor	th of Samplin	g Decemb	er 202	1						
				AMBIE	NT AIR LOCATION		_			
Loc	ation of ambie	nt air station	Shen	recheadva	an Boundary(Goa St	ate] (	G-A2)			
Ave	rage Ambient	Temperature (°C)	30.9		te Humidity (%)		72	Latitude	N 15º42'0	
Average Wind Speed (km/hr) 1.1			- in the second	and the second state in some the	ge Wind direction (I	a pite a distance of	198	Longitude	E 73#49'2	1.5"
Inst	ruments Used		FPS(	APM-550	), RDS(APM-460) &		And on the other designs, we			
Sr.	Date of	Date of Report No. PARAMETERS								
No	Sampling	nepore no.		PM <sub>10</sub>	PM2.5	S	O <sub>2</sub>	NOx	CO	SPM
1,	02/12/2021	SEE/AR/12/2021	/0064	10.92	<5.00	<3	00	<6.00	0.03	6.56
2.	06/12/2021	SEE/AR/12/2021	/0199	19.90	13.60	4.	S7	15.79	0.05	33.92
3.	09/12/2021	SEE/AR/12/2021	/0365	44.64	21.46	3.	56	10.25	0.06	67.77
4.	13/12/2021	SEE/AR/12/2021	/0437	65.42	23.29	<3	00	8.99	0.05	91.28
5.	16/12/2021	SEE/AR/12/2021	/0541	74.44	15.05	<3	.00	9.09	0.03	92.28
6.	20/12/2021	SEE/AR/12/2021	/0635	90.77	30.15	3.	10	7.25	0.05	122.16
7.	23/12/2021	SEE/AR/12/2021	/0716	79.44	41.29	<3	.00	10.02	0.06	123.45
8.	27/12/2021	SEE/AR/12/2021	/0838	56.53	22.37	<3	.00	10.27	0.09	82.01
9.	30/12/2021	SEE/AR/12/2021	/0897	62.69	35.18	<3	.00	9.34	0.08	100.62
	NAA	QS Limits*		100	60	8	0	80	4	- 40
		Units		µg/ m <sup>3</sup>	μg/m <sup>3</sup>	μg	/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
	0	Method		IS 5182( Part 23)	Leb SOP NO.: SEE/LD/SOP-AA-04		5182 t 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

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1)Akash Pattade Remain 2)Aditya Nalk Smull Analyzed by

NOERG Nandkumar Desai Reviewed by

Apartoleop Sawant Authorized Signatory

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BRANCH OFF. 2 310, Dempe Towns, EDC Putto, Panaji-405 001, Goa State, India (C): (0832) 2437048 / 2437164

#### 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)	20/11/2021	19/11/2022

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Ib 300(1007, Plut No. 81, Pateri Extele, Rete Megos, Verem, Alto, Old Bellim Roset, Banduz, Porvoren, Panaji-Gou-403 101. Gon State, India. (2) - (0832) 2411322 / 2411323 \* E-mail : stadubgos@rediffmail.com Lab sccredited by MoEF & CC Valid up to 03.11,2023 \* Certified by ISO 9001:2015 & ISO 45001 : 2018

STARE CURTON 5900 UP6

		AMB	ENT A	IR QUA	LITY MONITORI	NG F	REPO	RT		
Rep	ort Date	01/01/2	2022							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				1			
Add	ress of Client	Mopa, G	oa							
San	pling Plan	SEEPL/I	D/FM	T- 54	Sampling Procedu	re No	6) 6	SEEPL/QS	P-10	
San	ple Collected	By SEEPL R	eprese	ntative						
Mo	th of Samplin	g Decemb	er 202	1						
				AMBIE	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Nagz	ar(Goa St	ate) (G-A3)					
Ave	rage Ambient	Temperature (°C)	31.4	Averag	e Humidity (%)		75	Latitude	N 15645'3	7.3"
Ave	rage Wind Spe	ed (km/hr)	1.7	Averag	e Wind direction (I	Deg)	234	Longitude	E 73º53'1	4.22"
Inst	ruments Used		FPS{	APM-550	), RDS(APM-460) &	GPS (	APM -	411)		
Sr.	Date of	Report No.				PAR	AMET	ERS		
No	Sampling	Report No.		PM10	PM <sub>2.5</sub>	S	D2	NOx	CO	SPM
1.	02/12/2021	SEE/AR/12/2021,	0065	7.14	<5.00	<3	.00	<6.00	0.06	4.75
2.	06/12/2021	SEE/AR/12/2021,	/0200	21.36	16.63	<3	00	12.44	0.03	39.20
3.	09/12/2021	SEE/AR/12/2021,	0366	28.65	16.43	6.	25	8.46	0.05	45.94
4.	13/12/2021	SEE/AR/12/2021,	/0438	39.95	23.45	<3	00	20.13	0.03	64.10
5.	16/12/2021	SEE/AR/12/2021	/0542	51.25	29.11	4.)	84	8.08	0.06	81.63
6.	20/12/2021	SEE/AR/12/2021	/0636	61.97	27.03	<3	00	8.61	0.03	91.07
7.	23/12/2021	SEE/AR/12/2021	/0717	73.89	31.06	8.	75	7.76	0.08	106.6
8.	27/12/2021	SEE/AR/12/2021,	/0839	39.89	16.80	<3	00	9.90	0.06	58.76
9,	30/12/2021	SEE/AR/12/2021,	0898	64.37	27.40	3.	30	7.41	0.07	93.41
	NAA	QS Limits*		100	60	8	0	80	-4	
		Units		µg/ m3	µg/m <sup>3</sup>	pig/	ma	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP ND.: SEE/LD/SOP-AA-04		182 t 02)	18 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

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1)Akash Pattade NDESG 2)Aditya Naik Nandkumar Desai Apandeep Sawant Analyzed by Reviewed by Authorized Signatory

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#### 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	E1/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)	20/11/2021	19/11/2022

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B-3067307, Plot No. 81, Patel Estate, Reis Magon, Verem, Alla, Old Beller Hond, Banhaz, Pontotin, Panaji-Goa-403 101. Geo State, India. (2) .: (0832) 2411322 / 2411323 \* E-mail : idattatigoo@mdiffmail.com Lab accredited by MoEF & CC Valid up to 03.11.2022 + Certified by ISC 9601:2015 & ISC 45001 : 2018

SINCLUMBER. SHALUFE

		AMBI	ENT A	AIR QUA	LITY MONITORI	NG R	EPO	RT		
Report Date 01/01/2022										
Nan	ne of Client				tion DMCC nal Airport Limited					
Add	ress of Client	Mopa, G	ba							
Sam	pling Plan	SEEPL/1	D/FM	T- 54	Sampling Procedur	e No.		SEEPL/QS	P-10	
San	ple Collected	By SEEPL R	eprese	ntative						
Mor	th of Samplin	g Decemb	er 202	1						
		50 IST		AMBIE	NT AIR LOCATION			2		
Loc	ation of ambie	nt air station	Purv	a Casarva	rnem (Goa State)(G-	A4)				
Ave	rage Ambient	Temperature (°C)	31.2	Averag	ge Humidity (%)		69	Latitude	N 15º41'4	1.9*
Ave	rage Wind Spe	ed (km/hr)	1.6	Average Wind direction (Deg) 216			Longitude	E 73º50'1	6.6"	
Instruments Used FPS(				APM-550	), RDS(APM-460) &0	PS (A	PM -	411)		
Sr.	Date of	Report No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SC	2	NOx	CO	SPM
1.	02/12/2021	SEE/AR/12/2021/	0066	8.04	6.82	<3.	00	<6.00	0.05	14.98
2.	06/12/2021	SEE/AR/12/2021/	0201	32.04	12.56	<3.	00	12.64	0.06	44.91
3.	09/12/2021	SEE/AR/12/2021/	0367	36.84	22.83	3.9	8	9.82	0.07	60.98
4.	13/12/2021	SEE/AR/12/2021/	0439	48.04	15.51	<3.	00	14.39	0.06	64.26
5,	16/12/2021	SEE/AR/12/2021/	0543	68.12	22.91	3.0	7	8.69	0.03	93.13
6.	20/12/2021	SEE/AR/12/2021/	0637	76.67	24.37	3.7	5	7.97	0.07	101.32
7,	23/12/2021	SEE/AR/12/2021/	0718	73.48	43.58	.5.8	9	7.87	0.06	118.16
8.	27/12/2021	SEE/AR/12/2021/	0840	66.66	15.72	<3.	00	10.54	0.09	85.04
9,	30/12/2021	SEE/AR/12/2021/	0899	60.40	27.32	3.3	2	8.94	0.05	89.78
	NAA	QS Limits*		100	60	.8	)	80	4	-
		Units		μg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg/	m <sup>3</sup>	µg/m <sup>a</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
	1	Method		15 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	18.5 (Part		IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV)

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

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1)Akash Pattade 2)Aditya Naik Analyzed by

NOPPOJ Nandkumar Desai Reviewed by



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BRANCH OFF. ; 310, Dempo Towers, EDC Patto, Panaj-403 001. Goa Slate, India 🕐 | (0832) 2437048 / 2437164 E-mail: sadekavewiredbieddfinal.com \* Website: www.sadekarewiro.com \* CIN - D45200MH1998PTC-116376

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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B-308/307, Part No. 81, Pathi Estate, Ruis Mages, Varien, Alto, Old Baten Road, Bardez, Porvonn, Panaji-Gra-400 101. Goa State, india. (D .: (0832) 2411322 / 2411320 \* E-mail : statistigoa@eetiffmail.com Lab accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by IDO 9001:2015 & IBO 45001 ; 2018

SPINC LURITON

SAVE LIFE

		AMB	ENT A	IR QUA	LITY MONITORIN	IG REF	PORT			
Rep	ort Date	01/01/2	022							
Nan	ne of Client				ion DMCC Il Airport Limited					
Add	ress of Client	Mopa, Go	ba							
Sam	pling Plan	SEEPL/I	D/FMT	- 54	Sampling Procedure	2 No.	SEEPL/QSP-1	10		
Sam	ple Collected I	By SEEPL R	epreset	ntative						
Mor	th of Samplin	g Decembe	er 2021							
				AMBIEN	IT AIR LOCATION					
Loc	ation of ambie	nt air station	Khajr	ne Amere I	Porscodem (Goa Sta	te) (G-A	5)			
Ave	rage Ambient'	Temperature (°C)	30.9	Average	Humidity (%)	70	Latitude	N 15º40'3	8.0*	
Ave	rage Wind Spe	ed (km/hr)	1,3	Average	e Wind direction (De	eg) 21	0 Longitude	E 73º46'2	1.2"	
Inst	ruments Used		FPS(/	4PM-550),	RDS(APM-460) &G	PS (APN	1-411)			
Sr.	Date of	Depart No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	CO	SPM	
1.	02/12/2021	SEE/AR/12/2021/	0067	10.83	<5.00	<3.00	< 6.00	0.06	12.46	
2.	06/12/2021	SEE/AR/12/2021/	0202	27.24	10.60	3.39	14.50	0.08	38.76	
3.	09/12/2021	SEE/AR/12/2021/	0368	35.26	15.34	6.04	13,83	0.03	51,31	
4.	13/12/2021	SEE/AR/12/2021/	0440	35.95	17.59	<3.00	18.92	0.05	55,78	
5,	16/12/2021	SEE/AR/12/2021/	0544	42.39	21.33	<3.00	6.31	0.06	64.57	
6,	20/12/2021	SEE/AR/12/2021/	0638	76.04	33.68	<3.00	8.92	0.03	110.43	
7.	23/12/2021	SEE/AR/12/2021/	0719	71.11	24.58	<3.0	<6.00	0.07	96,76	
В.	27/12/2021	SEE/AR/12/2021/	0841	72.05	18.21	<3.0	10.11	0.05	91.63	
9.	30/12/2021	SEE/AR/12/2021/	0900	48.16	20.58	<3.0	8.43	0.06	69.21	
	NAA	QS Limits*		100	60	80	80	4		
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m	μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	
	3	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0	(C)	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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1)Akash Pattade 2)Aditya Naik Analyzed bý

NOESO Nandkumar Desai Reviewed by



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Gazutiad By Montry of Environment, Forest & Climate Change, Govi Of Initia, B. O. #57 #31.

BRANCH OFF. 1 319, Demps Towers, EDC Patter, Paragi-403 001, Goa State, India (C) (0832) 2437046 / 2437164 E-mail | saddsaremviro@redifinalLoos: \* Webelts | www.saddsarmvirn.com \* CIN - LH6209MH1998FTC-116370

#### Respirable Dust Sampler's with Gaseous Sampling

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

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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(b-300/307, Plut No. 61, Patel Extele, Reis Magoe, Verem, Alto, Okt Belim Road, Bardez, Ponsteim, Panaji-Goa-400 101. Gaa State, Indu. 17 : (0832) 2411322 / 2411323 \* E-mail : statubgoo@ediffmail.com Life according by MuEF & CC Valid up to 03.11.2023 \* Cartified by ISO 0001:2015 & ISO 45001 ; 2018

SPINE LUPITER STALLIFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	DRT		
Rep	ort Date	01/01/2	022						
Nan	ne of Client			Construct	ion DMCC al Airport Limited		6		
Add	iress of Client	Mopa, G	oa						
Sam	pling Plan	SEEPL/1	.D/FM	ľ-54	Sampling Proced	lure No.	SEEPL/QSI	P-10	
Sam	ple Collected	By SEEPL R	eprese	ntative					
Mor	th of Samplin	g Decemb	er 202	L .					
				AMBIEN	T AIR LOCATION				
Loca	ation of ambie	nt air station	Rajvi	I Wada To	rxem (Goa State)(G-	A6)			
Ave	rage Ambient	Temperature (°C)	31.6	Average	Humidity (%)	73	Latitude	N 15º48'	10.0"
Ave	rage Wind Spe	ed (km/hr)	1.4	Average	Wind direction (Dep	3) 189	Longitude	E 73052'S	50.2*
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (APM	-411)		
Sr.	Date of	Decent No.			1	PARAMI	TERS		_
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	CO	SPM
1.	02/12/2021	SEE/AR/12/2021,	/0068	8.32	7.15	3.26	<6.00	0.03	15.49
2.	06/12/2021	SEE/AR/12/2021,	/02:03	30.57	12.89	<3.00	11.95	0,05	43.88
3.	09/12/2021	SEE/AR/12/2021,	0369	32.40	19.09	4.47	9.71	0.08	52.71
4.	13/12/2021	SEE/AR/12/2021	/0441	33.67	15.68	<3.00	14.04	0.06	50.65
5,	16/12/2021	SEE/AR/12/2021	/0545	48.75	25.16	<3.00	8.54	0.03	77.09
6.	20/12/2021	SEE/AR/12/2021,	/0639	50.73	14.14	3.30	8.29	0.07	64,95
7.	23/12/2021	SEE/AR/12/2021,	/0720	61.52	40.00	4.03	10.03	0.05	102.2
8.	27/12/2021	SEE/AR/12/2021	/0842	55.04	18.09	4.10	11.62	0.03	74.50
9.	30/12/2021	SEE/AR/12/2021	/0901	33.88	19.84	4.09	8.80	0.06	54.69
	NAA	QS Limits*		100	60	80	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV	

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

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

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

1)Akash Pattade P02901 2)Aditya Naik Nandkumar Desai Anandeep Sawant Analyzed by Authorized Signatory Reviewed by

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Gazettad By Minutry of Environment, Forest & Climate Change, Gast Of Indus, B. D. 657 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Patte, Punaji-403 001, Goa State, India (C) (0832) 2437046 / 2437164 E-mail: sidekaramind@redifineil.com \* Website: www.sadakaraminim.com \* CIN - L45208MPH998PTG-116379

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

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is 306/207, Plot No. 61, Patel Estate, Reis Magos, Weem, Afte, Old Better Flood, Banhur, Purveiter, Patelj-Gaa-403 301. Ges Blats, India. (Ö.: (0832) 2411322 / 2411323 \* E-mid : starlabgrad@mdHmail.com Lisb accredited by MeEF & GC Wald up to 03.11.2022 & Certified by ISO 8001:2015 & ISO 45001 : 2018

SIVE WHICH SEWELLEG

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	ORT		
Rep	ort Date	01/01/2	022						
Norma Climit M/s. Megawide					ion DMCC il Airport Limited				
Add	ress of Client	Mopa, G	oa.						
Sam	pling Plan	SEEPL/I	.D/FM	ř- 54	Sampling Procee	lure No.	SEEPL/QS	P-10	
San	ple Collected I	By SEEPL R	eprese	ntative					
Mor	th of Sampling	g Decemb	er 2021	1					
		Alexandra A		AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Satar	da(Mahara	ashtra State)(M-A1)	)			
Ave	rage Ambient	Temperature (°C)	31.7	Average	Humidity (%)	69	Latitude	N15º43'0	1.3"
Average Wind Speed (km/hr) 1.8			Average	Wind direction (De	g) 232	Longitude	E 73*46'0	10.2"	
Inst	ruments Used	20-04-03	FPS(	APM-550),	RDS(APM-460) &G	PS (APM	(-411)		
Sr.	Date of PARAMETERS								
No	Sampling	Report No.	eport No.		PM <sub>2.0</sub>	SO <sub>2</sub>	NOx	CO	SPM
1.	02/12/2021	SEE/AR/12/2021,	0069	11.16	<5.00	<3.00	<6.00	0.06	13.56
2.	06/12/2021	SEE/AR/12/2021	0204	22.24	9.81	3.83	11.99	0.03	32.08
3.	09/12/2021	SEE/AR/12/2021	0370	20,65	17.13	5.63	7.73	0.05	37.95
4.	13/12/2021	SEE/AR/12/2021	/0442	44.83	14.39	5,95	8.10	0.06	59,23
5,	16/12/2021	SEE/AR/12/2021	0546	48.12	16.63	3.40	7.40	0.07	62.07
6.	20/12/2021	SEE/AR/12/2021	/0640	54.09	34.14	4.01	<6.00	0.05	88.40
7,	23/12/2021	SEE/AR/12/2021	0721	78,91	34.68	10.39	7,17	0.06	115,1
8,	27/12/2021	SEE/AR/12/2021	/0843	61.42	10.27	4.63	11.34	0.07	74.42
9.	30/12/2021	SEE/AR/12/2021	/0902	47.04	15.93	3.66	7.04	0.03	63.71
	NAA	QS Limits*		100	60	80	80	4	
		Units	)]	µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1S 5182 (Part 02)	IS 5182 (Part 05)	IS 5182( Part 10)	IS 5182 Part IV

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

Note : Test results related only to the sample tested.

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

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

1)Akash Pattade NOCTO 2)Aditya Naik ,% Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

NEAD OFF. & LAB 1 Plot No. A-95, Noref No. 10, Kisan Nagar Yond, MJ.D.C. Wagle Industrial Area, Thank - 400 004. Maturastrica Illisie, India. 6 (H-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3324 + E-4will um@extekermein.com / paulokar560 m Page 176 of 430

Galerited By Mentey of Environment, Forest & Classie Change, Gold Of India, 5, 0, 857 (II)

BRANCH OFF. : 310, Demps Towers, EEC Pate, Panaj-403 001, Gos State, India 🕐 : (0832) 2437048 / 3437164 E-mail: sadakananyical@external.com \* Website: www.sadakananywes.com + CIN - U852094011958PTC-11637B

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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D-308/307, Park No. 61, Parket Exterle, Rees Magers, Verent, Alto, Okt Better, Road, Bartlez, Porverim, Panaji-Goe-603 101. Goa State, India. 40 : (0832) 24113227 (2411323 \* E-mail: startabgoa@reditional.com Lab accredited by MoEF & CC Valid up to 03.11.2023 \* Centilled by ISO 9001:2015 & ISO 45001 : 2018

SOME WATCH SPACE LIFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	ORT			
Rep	ort Date	01/01/2	022							
Name of Client M/s. Megawide C/o GMR Goa Ir					ion DMCC il Airport Limited					
Add	ress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	D/FM	ľ- 54	Sampling Procee	dure No.	SEEPL/QS	P-10		
Sam	ple Collected I	By SEEPL R	eprese	ntative						
Mot	nth of Sampling	g Decemb	er 2021	É.						
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Ding	na(Mahara	shtra State)(M-A2)	(				
Ave	rage Ambient	Temperature (°C)	30.9	Average	Humidity (%)	71	Latitude	N 15046'	12.3"	
Average Wind Speed (km/hr) 1.2			Average	Wind direction (De	g) 18	) Longitude	E 73#49'2	10.5		
Inst	ruments Used		FPS(.	APM-550),	RDS[APM-460] &G	SPS (APM	4-411)			
Sr. Date of Deced No.				PARAMETERS						
No	Sampling	Report No.	teport No.		PM <sub>2.5</sub>	SO2	NOX	CO	SPM	
1.	02/12/2021	SEE/AR/12/2021/	0070	9.98	<5.00	<3.00	<6.00	0.05	9.90	
2.	06/12/2021	SEE/AR/12/2021/	0205	19.61	5.32	6.35	13.54	0.07	25.58	
3.	09/12/2021	SEE/AR/12/2021/	0371	24.61	14.30	4.83	8,61	0.06	39.82	
4.	13/12/2021	SEE/AR/12/2021/	0443	18.36	11.68	<3.00	14.76	0.03	31.28	
5.	16/12/2021	SEE/AR/12/2021	0547	39.81	10,44	<3.00	<6.00	0.05	50.92	
6.	20/12/2021	SEE/AR/12/2021,	0641	44.99	17.05	4,58	8.00	0.06	62.95	
7.	23/12/2021	SEE/AR/12/2021/	/0722	47.22	23.66	<3.00	6.68	0.06	71.50	
8.	27/12/2021	SEE/AR/12/2021/	/0844	59.21	20.50	<3.00	8.90	0.08	80.83	
9.	30/12/2021	SEE/AR/12/2021	/0903	33.13	13.47	4.03	6.93	0.03	46.89	
	NAA	QS Limits*		100	60	80	80	4	1.255	
		Units		μg/ m <sup>3</sup>	µg/m³	µg/m	μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02	and the second sec	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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HEAD OFF, & LAB | Plot No. A-95, Finant No. 10, Kinan Nagar Finant, M.133 C. Wagle Industrial Area, Tinene - 400 504. Mehamainina State, India (\*) (\*) 222 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 - E-mail: en@active.com / possible.com / possible.com / Page 178 of 430

Gazethad By Ministry of Environment, Foresil & Climate Change, Govil Of India, 5. O. 857 (E)

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#### Calibration details of Equipment used for Sampling & Analysis

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- 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)	20/11/2021	19/11/2022

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SZAC LURITER 52WEUR6

		AMBI	ENT A	IR QUAL	ITY MONITORIN	NG R	EPO	RT		
Rep	ort Date	01/01/2	2022							
Nan	ne of Client			Construct	ion DMCC al Airport Limited					
Add	iress of Client	Mopa, G	oa							
San	ipling Plan	SEEPL/I	.D/FM	F- 54	Sampling Procee	dure N	lo.	SEEPL/QSI	P-10	
San	ple Collected	By SEEPL R	eprese	ntative						
Moi	nth of Samplin	g Decemb	er 2021							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Neta	rde[Mahar	ashtra State)(M-A3	)		N		
Ave	rage Ambient	Temperature (°C)	31.7	Average	Humidity (%)	7	6	Latitude	N 15º46'	11.7"
Ave	rage Wind Spe	ed (km/hr)	1.5	Average	Wind direction (De	g) 2	13	Longitude	E 73º50'4	48.0"
Inst	ruments Used		FPS(	APM-550),	RDS[APM-460] &G	PS (A	PM -	411]		
Sr.	Date of	Report No.	· · · · ·			PARA	_	and the second sec		
No	Sampling			PM <sub>10</sub>	PM <sub>2.5</sub>	SC		NOx	CO	SPM
1,	02/12/2021	SEE/AR/12/2021	0071	8.16	<5.00	<3.0	00	<6.00	0.03	4.06
2.	06/12/2021	SEE/AR/12/2021,	/0206	24.22	12.31	<3.0	00	14.09	0.05	37.23
3.	09/12/2021	SEE/AR/12/2021,	0372	36.66	11.06	6.2	4	9.28	0.06	49.08
4.	13/12/2021	SEE/AR/12/2021/	0444	34.64	20.58	<3.0	00	14.96	0.07	56.45
5.	16/12/2021	SEE/AR/12/2021,	/0548	76,83	16.09	3.4	0	8.01	0.03	94.04
6.	20/12/2021	SEE/AR/12/2021/	/0642	66.27	39.01	<3.0	00	7.71	0.06	106.0
7.	23/12/2021	SEE/AR/12/2021,	/0723	75.32	19.13	4.9	3	<6.00	0.05	95.90
8.	27/12/2021	SEE/AR/12/2021,	0845	43.38	16.88	3.9	4	9.34	0.03	61.69
9.	30/12/2021	SEE/AR/12/2021,	/0904	58.70	21.96	<3.0	00	7.56	0.06	82.22
	NAA	QS Limits*		100	60	80	)	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m³	µg/	m <sup>3</sup>	µg/m³	mg/m <sup>1</sup>	µg/m
	1	Method		IS 5182( Part 23)	Lab SOP NO : SEE/LD/SOP-AA-04	IS 51 (Part		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.

NDEDGY 1)Akash Pattade 2)Aditya Naik Nandkumar Desai eep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF, & LAB : Plot No. A-ES, Russil No. 10, Risson Niegor Road, M.LD C. Wegle Industrial Area, There - 400 634. Mehanatrica Illuin, India (2) (91-32) 2543 2321 / 2563 2322 / 2563 2323 / 2563 2324 + E earl : pro@sadskammike.acm / joadskar5@pmPage 180 of 430

Gazettao By Meistry of Environment, Forest & Climate Change, Gost Cf India, S. O. 857 (II)

### Calibration details of Equipment used for Sampling & Analysis

#### Respirable Dust Sampler's with Gaseous Sampling

4	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)	20/11/2021	19/11/2022

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			AMBIENT AIR QU	ALITY MONIT	ORING	REPORT			
Report No	).,	SEE/	AR/12/2021/0445		Date of Is	ssue		20/12/202	21
Name of (	Client		Megawide Construction MR Goa international		ad				
Report No.     SEE/AR/12/2021/0       Name of Client     M/s. Megawide Cor C/o GMR Goa inter       Address of Client     Mopa, Goa       Sample Collected By     SEEPL Represents       Date of Sampling     13/12/2021       Analysis Started On     14/12/2021       Ocation of ambient air station istruments Used     Mopa Bours Organic Vag		Goa							
Address of Client Mopa, Goa Sample Collected By SEEPL Represe Date of Sampling 13/12/2021 Analysis Started On 14/12/2021 ocation of ambient air station Mopa Bo Organic V Chem Sr. No. Parameters		L Representative		E	nvironmen	tal conditi	ion of Lab		
Date of Sampling 13/12/2021		/2021	Temperatu		28.3	Humi	idity (%)	66	
Analysis Started On 14/12/2021		/2021	Analysis (	Complete	d On	20/12	2/2021		
			AMBIENT	AIR LOCATIO					
	the second se	n	Mopa Boundary (Ge	and the second of the					
strument	s Used		Organic Vapour Sa	and the second second					
			Chemical Testin			ution			
		Res		Unit			Metho	bd	
01.	Total VOC		<1.0	)	ppm	M	tethod 18		
:Te: :Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy	sis report.	
:Te: :Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy	sis report.	
:Te: :Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborat is back side	ory. e of analy	sis report.	
: Te: : Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy		
: Te: : Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy		
: Te: : Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy		
: Te: : Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate	ory. e of analy		
: Te: : Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborate is back side	ory. e of analy		
:Te: :Th	st results relate or is certificate may	ny to the o not be rep	condition prevailing a produced in part, with	out the permi	ssion of t	his laborato	ory. e of analy		
:Te: :Th	st results relate or is certificate may libration details of	ny to the o not be rep	condition prevailing a produced in part, with ments used in monite	out the permi	ssion of t	his laborate is back side	ory. e of analy		

HEAD OFF. & LAB : Plot No. A-96, Road No. 18, Know Nagar Road, M LD C. Wegle Industrial Area, These - 400 604, Maturovalities State, India. (9): (91-22) 2543-3321 / 2543-3322 / 2543-3323 / 2543-452 / E)

BRANCH OFF: 310, Dempo Towers, EDC Patto, Paroj-403.001, Gos Stato, India (2): (0832) 2437045 / 2437164 E-mail: add/data/vbuffind/final.com \* Website: www.add/data/vbuffind/final.com \* Cht., U45209MH1998PTC-116379.

### 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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B-300/307, Plot No. 61, Patei Estalo, Reis Magos, Venem, Alto, Old Batim Road, Bardez, Porvorim, Panal-Goa-403 101. Gos State, India. ID : (0832) 2411322 / 2411323 • E-mail : starlabgosigred/fmail.com Lab accredited by McEF & CC Valid us to 03.11.2023 + Certified by ISO 9001.2015 & ISO 45901 ( 2018)

SAVE WHITE! SEVELIFE

	AMBIENT AIR QU	ALITY MONITORING	REPORT		
Report No.	SEE/AR/12/2021/0446	Date of	Date of Issue		21
Name of Client	M/s. Megawide Construction C/o GMR Goa international				
Address of Client	Mopa, Goa			í.	
Sample Collected By	SEEPL Representative		Environmen	ntal condition of Lab	
Date of Sampling	13/12/2021	Temperature(%C)	28.3	Humidity (%)	66
Analysis Started On	14/12/2021	Analysis Comple	led On	20/12/2021	
	AMBIENT	AIR LOCATION			

Location of ambient air station	HSD Bunk (Inside Mopa Airport Premises)
Instruments Used	Organic Vapour Sampler
THE REAL PROPERTY OF A DESCRIPTION OF A	tere a construction de la co

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

NOE94 Nandkumar Desai Reviewed by

Apendeep Sawant

Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Raam Nagar Road, M.LD C. Wagle Industrial Arms, Thane - 400 004, Idahamantina State, India. (f) (f)-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mel : progressies.com / publicker561 Page 184 of 430 Gazettad By Ministry of Environment, Forest & Climate Change, Goxt Of India, S. O. 457 (E)

BRANCH OFE : 310, Dempe Towers, EDC Patto, Paraji-403-001. Goa State, Inda 🖉 : (0832) 2437048 / 2437164 E-mail addikarenvirodDrod/Briali.com • Website : www.sadekprimitec.com • CIN - U452004641008PTC-118379

### 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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8-305/307, Plot No. 61, Patel Estate, Ran Magon, Varam, Alto, Old Betim Road, Bardaz, Parvarim, Panaji-Goa-403 101. Gea State, India. 40 ; (0832) 2411322 / 2411323 • E-mail : stanistige@@mdiffmail.com Lab according by MoEF & CC Wild up to 03.11.2023 + Certified by ISO 9001:2015 & ISO 45001 : 2018

SAME LUMPING SPIVELIFE

		AMBIENT AIR QU	ALITY MONITORIN	<b>GREPORT</b>			
Report No.	SEE	E/AR/12/2021/0447	Date o	Date of Issue		21	
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited					
Address of Client	Mop	oa, Goa					
Sample Collected By	SEEPL Representative		Environmental condition of Lab				
Date of Sampling	13/	12/2021	Temperature(%C	28.3	Humidity (%)	66	
Analysis Started On	14/12/2021		Analysis Completed On 20/12/2021				
		AMBIENT	AIR LOCATION				
Location of ambient air sta	lion	Shemecheadvan B	oundary (Goa State)	(			
Instruments Used		Organic Vapour Sa	mpler				

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

NOES Nandkumar Desai Reviewed by

Anendeep 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	101-DTD-2014	EI/FF/635	19/02/2021	18/02/2022

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B-306/307, Piol No. 61, Patel Estate, Reis Magne, Venen, Alto, Old Betim Road, Bandez, Porvenin, Panaji-Goa-403 101. Gine Blate, India. 40 : (0832) 2411322 / 2411323 • E-mail : startatigon@mellfmail.com SPACE WITTEN SPIVE LIVE

Lub accredited by	MOEF & CO	Make up to 03.1	11.2023 # Caroline	5 by 150 9001	1:2015 & 190 45	001:2010

	NOISE LEVEL I	MONITORING REP	PORT	
Report No.	SEE/AR/12/2021/0549-0550, 059 0809, 0643, 0611-0612, 0810, 08		Report Date	31/12/2021
Name of Client	M/s. Megawide Construction DM C/o GMR Goa international Airpo			
Address of Client	Mopa, Gos			
Sample Collected By	SEEPL Representative			
Sampling Plan	SEEPLILD/FMT- 54	Sampling Proc	edure No.	SEEPL/QSP-10

#### Chemical Testing - Atmospheric Pollution

Sr. No	Fonort No.		Station	- CONTRA	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
NO	Monitoring		iu.			Lmin	Lmax	Leq	Lmin	Lmax	Leg
٤.	16/12/2021	SEE/AR/12/2021/0549	G-N1	1	Mopa Boundary	30.1	77.2	62.4	30.0	72.9	56.3
2	16/12/2021	SEE/AR/12/2021/0550	G-N2	t.	Shemecheadvan Boundary	37.5	70.6	58.9	32,3	60.6	53.3
3	18/12/2021	SEE/AR/12/2021/0598	G-N3	С	Nagzar	32.3	78.2	60.1	30,0	66.4	48,3
4	18/12/2021	SEE/AR/12/2021/0599	G-N4	R	Purva Casarvamem	30.1	62.6	49.5	30.0	58.1	38.7
5.	20/12/2021	SEE/AR/12/2021/0644	G-N5	R	Chandel	30.0	71.8	48.3	30.1	60.6	39.4
6;	24/12/2021	SEE/AR/12/2021/0809	G-N6	R	Khajne Amere Porscodem	30.0	72.3	49.2	30.4	63.3	39.8
7,	20/12/2021	SEE/AR/12/2021/0643	G-N7	R	Warkband	30.0	73.0	48.6	30.1	54.0	40.5
8.	25/12/2021	SEE/AR/12/2021/0811	G-N8	C	Rajvil Wada Torxem	33.6	72.1	60.7	30.0	69.1	47.9
9	25/12/2021	SEE/AR/12/2021/0812	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvern	30.0	69.9	57.1	30.1	55.9	45.4
10,	24/12/2021	SEE/AR/12/2021/0810	M-N1	R	Satarda	30.0	73.4	47.3	30.0	59.5	40.3
11.	26/12/2021	SEE/AR/12/2021/0820	M-N2	R	Dingna	30.0	63.3	45.4	33.3	49.9	37.3
12.	26/12/2021	SEE/AR/12/2021/0819	M-N3	R	Netarde	30.0	75.3	49.6	30.0	49.9	39.4

Aren Coda	Category of Area	Limits in dB(A) Leq			
141000 04000	Galagory or Area	Day Time	Night Time		
(A)	Industrial Area (1)	75	70		
(B)	Commercial Area ( C )	65	55		
(C)	Residential Area (R)	55	45		
(D)	Silence Zone ( S )	50	40		

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

\*dB(A) Log denotes the time weighted average of the lovel 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 eer.

> 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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Nevel Sanjivan Gawas Nandumar Desai Monitored by Reviewed by

Anandeep Sawant Authorized Signatory

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BRANCH OFF. 1 310, Dempo Towan, EDC Patto, Panaj-403 001. Goa State, India (0 : (0032) 2437046 / 2437104

E-mail: aadekaranvindhedifmait.com \* Website: www.aadekaranvinc.com + CNL.LLECOULINGEDTC.com

### 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)

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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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In-2003007, Piot No. 61, Patril Estiste, Hens Megori, Veren, Ato, Ott Italim Road, Bandez, Porvorim, Panaj-Goa-403 101, Ora State, India. © : (0632) 24113227 2411323 ★ E-mail : alektatgra@end@nail.com Lab accredited by MoEF & CC Viriet up to 03 11 2023 ★ Certified by ISO 9001:2015 & IBO 45001 : 2018 SPINE SUPPLY

		STACK EN	<b>MISSION REPORT</b>					
Report No.	SEE/AR/12/20	21/0450	Report Dat	Report Date				
Name of Client	M/s. Megawid C/o GMR Goa		n DMCC Airport Limited					
Address of Client	Mopa, Goa							
Sampling Plan	SEEPL/LD/FN	IT- 54	Sampling Procedu	re No.	SEEPL/QSP-10			
Sample Collected By	SEEPL Repre	sentative	E	nvironmer	ntal condition of lab	1.1		
Date of Sampling	13/12/2021		Temperature(°C)	28,5	Humidity (%)	68		
Analysis Started On	13/12/2021	13/12/2021		Analysis Completed On		17/12/2021		
		STACK	DETAILS					
Attached To		Diesel C	Generator (Caterpilar -	500 KVA)	(Near ACC Plant)			
Shape		Round						
Diameter		0.15 Mtr	0.15 Mtr					
Height From Ground Level	()	5.0 Mtr	5.0 Mtr					
Material of Construction		M.S.	M.S.					
Temperature		343 °C	343 °C					
Velocity of Flue Gases		6.66 m/s	6.66 m/sec					
Volumetric Flue Gas Flow	Rate	424.38	424.38 m <sup>9</sup> /hour					
Volumetric Flue Gas Flow	Rate	205.06	Nm <sup>3</sup> /hour					
Type of Fuel		H.S.D.	H.S.D.					
Fuel Consumption		20.00 lit	lhr					
Load		300.00	KVA (60%)					

#### **Chemical Testing - Atmospheric Pollution**

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	SO2	0.09		Kg/hour	IS 11255(Part II)
02.	NOx	0.18	9.2	g/kw-hr	IS 11255(Part VII)
03.	Carbon Monoxide	0.08	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	0,10	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

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

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Susmita Kapdoskar Analyzed by

Nandkumar Desai Reviewed by

Angodeep Sawant Authorized Signatory

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BRANCH OFF. : 310, Dumpo Towers, EDC Patto, Panaji-403 001. Goa State, India (2): (0832) 2437048 / 2437164

Calibration details of Equipment used for Sampling & Analysis

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

Sr N	o. Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	EI/ET/306	20/02/2021	19/02/2022

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

### BHOOMI GAS ANALYSERS

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Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	Bhoomi Flexi (SI NO.5000391)	14/06/2021	13/06/2022	

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B-306207, Piot No. 81, Patel Estate, Reis Magos, Vensm, Alto, Old Betlin Road, Bardez, Ponorim, Panel-Gua-403 101, Gras Stale, India, 40 : (0032) 2411322 / 2411323 E-mail : startabgoa@inedifinial.com Lub accredited by MitEF & CC Valid up to 03.11.2023 + Certified by ISC 9001.2015 & ISC) 45001 : 2018 SIVE WITCH SIVE WITCH

Report No. SEE/12/2021/205				Issue Date		15/1	15/12/2021	
	of Client	M/s. Megawide C C/o GMR Goa In						
Addre	ess of Client	Mopa, Goa						
Order	/ Reference	As per dated 09/	12/2021	Environmental Cond	tion of Lab	Temp © C 28.1	Humidity %	
Samp	ling point	Borewell 1						
Samp	le details	Ground Water		Date of colle	ction	09/1	2/2021	
Samp	le Collected by	SEEPL Represer	tative	Sample Rec	eived On	09/1	2/2021	
Analy	sis Started On	09/12/2021		Analysis Cor	npleted On	15/1	2/2021	
Samp	le Container	Glass bottle		Sample Qua	ntity 5000 ml			
Chen	nical Testing							
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Method		
1,	pН	6.62	2	6.5 - 8.5	IS 3025 (P	IS 3025 (Part 11)		
2.	Turbidiity	0.46	NTU	1.00	IS 3025 (Part 5)			
3.	Taste	Agreeable	-	Not Specified	APHA(23*	APHA( 23rdEdition ) 2160 B		
4.	Color	<1.00	Hazen ur	nit Not Specified	APHA(23 <sup>n</sup>	Edition ) 2120	) B	
5.	Odour	Agreeable		Not Specified	APHA(23	Edition ) 2150	B	
6.	Total Alkalinity	102.00	mg/lit	200.00	IS 3025 (P	art 23)		
7.	Total Dissolved Solids	141.00	mg/lit	500.00	IS 3025 (P	art 16)		
8.	Chlorides as CI	17.51	mg/lit	250.00	IS 3025 (P	art 32)		
9.	Sulphate as SOc	<5.00	mg/lit	200.00	IS 3025 (P	art 24)		
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23	Edition ) 4500	) S/F	
11.	Total Hardness as CaCO	100.00	mg/lit	200.00	IS 3025 (P	art 21)		
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (F	IS- 3025 (Part 34)		
13.	Mineral oil	<0.1	mg/號	+0.50	Clause 6 o	f IS 3025 (Par	t 39)	

HEAD OFF. & LAB 1 Plut No. A-05, Road No. 16, Kean Neger Road, M.LD.C. Wagle Instantial Area, Thane - 402 604, Mehanachtra Bale, Ind Page 1 of 3

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E-mail | addisamminglimedifinal.com \* Website | www.andebaumini.com \* City - LidS200MFC0000FCC-116270

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	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 26/06/2		
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	

Report No. SEE/12/2			/205	Issue	Date	15/12/2021
Orde	Order / Reference As per dated 09/12/2021			Samp	e Received On	09/12/2021
Analy	vsis Started On	09/12/2021		Analy	sis Completed On	15/12/2021
Nam	e of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited		
Cher	nical Testing					+
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per l 10500)		Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	5)
15.	Nitrate as NO <sub>0</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23rdEdit	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23dEdit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified APHA( 23 <sup>rd</sup> Edition		ion) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion) 5540 - C
letal	Analysis			V.	T	
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/iit	0.50	IS 3025 (Part 2	)
23.	Calcium as Ca	16.83	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	1S 3025 (Part 2	) .
25.	Iron as Fe	0.03	mg/lit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	14.08	mg/lit	Not Specified	APHA( 23/Edit	ion) 3500Mg B
28.	Chromium as Cr	0.01	mg/lit	Not Specified	APHA( 23#Edit	ion ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	0.02	mg/lit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	19.00	mg/lit	Not Specified	APHA( 23"Edit	tion ) 3120 B
32.	Potassium as K	8.50	mg/lit	Not Specifier	APHA( 23#Edi	tion ) 3120 B
33.	Copper as Cu	< 0.01	mg/lit	0.05	IS 3025 (Part 2	3

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By



	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	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	

Report No.	SEE/12/2021/205	Issue Date	15/12/2021			
Order / Reference	As per dated 09/12/2021	Sample Received On	09/12/2021			
Analysis Started On	09/12/2021	Analysis Completed On	15/12/2021			
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( 23r/Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23rdEdition ) 9221-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.

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

Negal Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

				Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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 B-396(307, Flot No. 61, Patel Estate, Reis Magen, Veren, Alis, Old Belm Road, Bardez, Pervarim, Panaji-Goa-403 101, Goa Blate, India. 10 - (0832) 24113027 2411323 \* E-mail : statistigeset@realfined.com Leth accredited by MoEF & CC Vestat up to 03.11.2023 \* Certified by ISC 990(1.2015 & ISC 45001 : 2018 SIVE WREAK SIVE UPE

		ANALY	SIS REPO	RT FOR	WATER SAMPI	LE			
Report N	lo,	SEE/12/2021/20	6		Issue Date			15/12/	2021
Name of	Client	M/s. Megawide C/o GMR Goal							
Address	of Client	Mopa, Goa							
Order / F	Reference	As per dated 09	/12/2021	Enviro	nmental Conditi	on of Lab		p ° C 3.1	Humidity % 66
Sampling	g point	Borewell No. 2							
Sample	details	Ground Water			Date of collect	ion		09/12/	2021
Sample	Collected by	SEEPL Represe	intative		Sample Recei	ved On		09/12/	2021
Analysis	Started On	09/12/2021			Analysis Comp	pleted On		15/12/	2021
Sample	Container	Glass bottle + P	VC Can		Sample Quant	ity		1000	ml + 4000ml
Chemica	al Testing				en e				
Sr. No.	Parameter	Result	Unit		IS desirable mit (As per IS 10500)		N	lethod	

No.	Parameter	Result	Unit	Limit (As per IS 10500)	Method
1.	pН	7.02		6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.80	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	2	Not Specified	APHA( 23rlEdition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable		Not Specified	APHA( 23#Edition ) 2150 B
6.	Total Alkalinity	92.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	121.00	mg/lit.	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	20.52	mg/lit	250.00	IS 3025 (Part 32)
9,	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/tit	Not Specified	APHA( 23MEdition ) 4500 SF
11.	Total Hardness as CaCO <sub>3</sub>	96.00	mg/iit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/it	0.50	Clause 6 of IS 3025 (Part 39)

Aurt	
1. Shreya Harmaikar, Surge	
2. Anisha Parab Anoun	
Analyzed by	

Nandkumar Desai Reviewed By



Authorized Signatory

HEAD DFF. & LAB : Plot No. A-95, Rood No. 10, Kean Nagar Rood, M.LD.C. Wegle Industral Ana, Thank - 400 604, Matpolashita Stote, IndPage 1 of 3 (2): (01-22) 2563 33221 / 2563 3322 / 2563 3323 / 2563 3324 - E-moll : prodiside/erem/to.com / postekar5@ Page 198 of 430

Guardiert By Mexitity of Environment, Forest & Climate Change, Gevi Of India, S. D. 857 (E)

BRANCH OFE 1 010, Dempo Towers, EDC Paths, Panaj-403 001. Goe State, India 🕐 : (0832) 2437048 / 2437164

E-mail: addek.auswina@end/fmail.com \* Witholte: www.addek.auswino.com \* CIN - LI45201MH10956PTC-116320

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo	ort No.	SEE/12/2021/206		Issu	e Date	15/12/2021
Orde	r / Reference	As per dated	09/12/2021	Sam	ple Received On	09/12/2021
Analy	vsis Started On	09/12/2021		Anal	ysis Completed On	15/12/2021
Nam	e of Client		de Construct oa Internation	ion DMCC aal Airport Limited		
Cher	nical Testing					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per 10500)	5.04	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)
15,	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	d APHA( 23#Edit	ion ) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	d APHA( 23"Edit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23#Edit	ion) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified APHA( 23"Edition		ion) 5540 - C
Aetal	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	}
23.	Calcium as Ca	16.03	mg/lit	Not Specified	d APHA( 23//Edit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	) :
25.	Iron as Fe	0.09	mg/lit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	13.59	mg/iit	Not Specified	d APHA( 23rdEdit	ion) 3500Mg B
28.	Chromium as Cr	0.01	mg/iit	Not Specified	d APHA( 23"Edit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	0.01	mg/iit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	18.50	mg/lit	Not Specified	d APHA( 23#Edit	ion ) 3120 B
32.	Potassium as K	10.00	mg/iit	Not Specified	d APHA(23 <sup>n</sup> Edit	ion) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	0

2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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Report No.	SEE/12/2021/206	Issue Date	15/12/2021
Order / Reference	As per dated 09/12/2021	Sample Received On	09/12/2021
Analysis Started On	09/12/2021	Analysis Completed On	15/12/2021
Name of Client	M/s. Megawide Construction D C/o GMR Goa International Air		

**Microbiological Parameters** 

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

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NDERGI Nandkumar Desai Reviewed By

18 Agandeep Sawant Authorized Signatory

				Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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6-300/307, Plet No. 61, Patel Estate, Reiz Magos, Varen, Alto, Old Belan Rood, Bandsz, Parvarin, Parugi-Oos-403 101. Goo Bate, India. 10 - (0832) 2411322 / 2411323 # E-mail: statishgrad@redftmail.com Lati accredited by MoEF & GC Valid up to 03.11.2023 # Certified by ISO 9001 2015 & ISO 45501 : 2018

SPINE LIFE

1000	1921			FOR WATER SAMP			104.558
Repo	rt No.	SEE/12/2021/207		Issue Date		15/12	/2021
Name	a of Client	M/s. Megawide C C/o GMR Goa Ir					
Addre	ess of Client	Mopa, Goa	lopa, Goa				
Order	r / Reference	As per dated 09/	12/2021	Environmental Condit	ion of Lab	Temp <sup>o</sup> C 28.1	Humidity 9 66
Samp	oling point	WTP-Treated					
Samp	ole details	Treated Water sa	ample	Date of collect	tion	09/12	/2021
Samp	e Collected by	SEEPL Represen	ntative	Sample Rece	ved On	09/12	/2021
Analy	sis Started On	09/12/2021		Analysis Com	pleted On	15/12	/2021
Samp	e Container	Glass bottle		Sample Quan	tity	5000	mi
Chen	nical Testing						
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method		
1.	pН	6.71	-	6.5 - 8.5	IS 3025 (Pa	art 11)	
2	Turbidity	0.37	NTU	1.00	IS 3025 (Pa	art 5)	
З.	Taste	Agreeable	2	Not Specified	APHA( 234	Edition ) 2160	в
4.	Color	<1.00	Hazen uni	it Not Specified	APHA( 23/	Edition ) 2120	в
5.	Odour	Agreeable	-	Not Specified	APHA( 23rd	Edition ) 2150	в
6.	Total Alkalinity	10.00	mg/lit	200.00	IS 3025 (Pa	art 23)	
7.	Total Dissolved Solids	47.00	mg/lit.	500.00	IS 3025 (Pa	art 16)	
8.	Chlorides as CI	11.01	mg/lit	250.00	IS 3025 (P	art 32)	
9,	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (P	art 24)	
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23*	Edition ) 4500	S2F
11.	Total Hardness as CaCO	∋ 8.00	mg/lit	200.00	IS 3025 (P	art 21)	
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (F	Part 34)	
13,	Mineral oil	<0.1	mg/lit	0.50	Clause 6 o	FIS 3025 (Part	39): 1991

HEAD OFF, & LAB : Plat No. A-95, Road No. 16, Kisen Nagar Road, M.I.D.C. Wagle Instantial Avea, These - 402 604, Mehamathra Date, http://age 1.of 3 (2): (01-22) 2553 3321 / 2563 3322 / 2563 3323 / 2563 3324 + E-evail : pre@sachkarenviro.com / paabakar5g/Page 204 of 430

Garefield By Ministry of Ecvinement, Forest & Climate Change, Govi Of India, S. O. 807 (E)

BRANCH OFF. | 310, Dempo Towers, EDC Patto, Panaj-403-001. Goa State. India (2) (0832) 2437048 / 2437164

E-mail: autokaumminalized/fmail.con # Website: www.autokierenviru.con # City - 124520040-1000075-116320

		S 87		Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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Repo	rt No.	SEE/12/2021/207		Issue	Date	15/12/2021	
Order	/ Reference	As per dated	09/12/2021	Samp	ole Received On	09/12/2021	
Analy	sis Started On	09/12/2021		Analy	sis Completed On	15/12/2021	
Name	of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited			
Cherr	nical Testing			1			
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per l 10500)		Method	
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)	
15.	Nitrate as NO3	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)	
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23#Edit	ion) 4500 F D	
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23"Edit	ion) 5530-B,C	
18.	Cyanide	<0.01	mg/īit	Not Specified	Not Specified APHA( 23rdEdition ) 4500		
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23rdEdit	ion) 5540 - C	
letal A	Analysis						
20.	Aluminium as Al	<0.01	mg/iit	0.03	IS 3025 (Part 2	IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	IS 3025 (Part 2)	
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)	
23,	Calcium as Ca	<1.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	) :	
25,	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2	)	
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)	
27.	Magnesium as Mg	<1.00	mg/lit	Not Specified	APHA( 23/ Edit	ion) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3120 B	
29,	Mercury as Hg	<0.001	rng/lit	0.001	IS 3025 (Part 2	)	
30,	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2	)	
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 <sup>st</sup> Edit	ion ) 3120 B	
32.	Potassium as K	1.00	mg/lit	Not Specified	APHA( 23ªEdit	ion) 3120 B	
33,	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	'n	

1. Shreya Harmalkar 2. Anisha Parab Analyzed by Nandkumar Desai Reviewed By



		Equipment Id		Calibration Details	
Sr. No.	Equipment Name		Certificate No.	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

Report No.	SEE/12/2021/207	Issue Date	15/12/2021
Order / Reference	As per dated 09/12/2021	Sample Received On	09/12/2021
Analysis Started On	09/12/2021	Analysis Completed On	15/12/2021
Name of Client	M/s. Megawide Construction D/ C/o GMR Goa International Air		

**Microbiological Parameters** 

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar 9 2. Anisha Parab Jupa Analyzed by

NDESO Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

		1	Certificate No.	Calibration Details		
Sr. No.	Equipment Name	Equipment Id		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	2	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	



B-305/307, Plot No. 61, Putel Estato, Ruis Magos, Verem, Alto, Old Bytim Road, Barduz, Porvorim, Panaj-Gos-403 101. Gos State, India. 10 : (0832) 2411322 / 2411323 \* E-mail: startatignar@rodffmail.com Lato accondited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISC 9001 2015 & ISO 45001 / 2018. SPAE UNITED SPACE LIFE

	ANALYSIS REPORT	RT FOR WATER SAMPLE		
Report No.	SEE/12/2021/204	Issue Date	15/1	2/2021
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 09/12/2021	Environmental Condition of Lab	Temp # C 28.1	Humidity %
Utger / Neierence	As per dated vol 12/2021	Jaced Ver 12/2021 Environmental Condition of Lab		66
Sampling point	R.R. Canteen			
Sample details	Drinking Water	Date of collection	09/1	2/2021
Sample Collected by	SEEPL Representative	Sample Received On	09/1	2/2021
Analysis Started On	09/12/2021	Analysis Completed On	15/1	2/2021
Sample Container	Glass bottle	Sample Quantity	1000	lm (

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

Note: Test results related only to the sample tested.

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

Anisha Parab Analyzed by

NDESO Nandkumar Desai Reviewed By

Mandeep Sawant

Authorized Signatory

HEAD OFF, & LAB : Plot No. A-95, Road No. 16, Kinen Neger Fload, M.LD.C. Wagte Industrial Area, Thans - 400 604. Metacentrics State, ImPage 1 of 1 () - () - () - 22) 2583 3321 / 2583 3322 / 2583 3222 / 2583 3222 / 2583 3222 / 2583 3222 / 2583 3222 / 2583 3222 / 2583 322 / 2583 322 / 2583 3222 / 2583 322 / 2583 322 / 2583 322 / 2583 322 / 25

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

BRANCH OFF. 1 310, Dempo Towers, EDC Patto, Panaji-403 001. Gas Blate, India (2) (0832) 2437046 / 2437164 E-mail: and demonstrative demonstration of the second statement of t

	Equipment Name	Equipment Id		Calibration Details		
Sr. No.			Certificate No.	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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8-300/307, Plot No. 81, Patel Estate, Reis Mages, Vieren, Allo, OK Bathy Road, Barder, Parverse, Panaj-Gra-403 101 Gold State, India. 101: (0532) 2411322 / 2411323 \* E-mail: introdoca@red@mail.com Lab accordited by MnEE & CC Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45501 : 2018 SPINE WHITEH SPINE WHE

	ANALYSIS REPO	RT FOR WATER SAMP	LE			
Report No.	SEE/12/2021/208	Issue Date	Issue Date		/2021	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 09/12/2021	ted 09/12/2021 Environmental Condition of Lab		Temp © C 28.1	Humidity % 66	
Sampling point	V.N.C Colony			-		
Sample details	Drinking Water	Date of collect	ion	09/12	/2021	
Sample Collected by	SEEPL Representative	Sample Receiv	Sample Received On		09/12/2021	
Analysis Started On	09/12/2021	Analysis Comp	Analysis Completed On		/2021	
Sample Container	Glass bottle	Glass bottle Sample Quantity			ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

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	Equipment Name	Equipment Id		Calibratio	Calibration Details		
Sr. No.			Certificate No.	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 REPO	RT FOR WATER SAMPLE		
Report No.	SEE/12/2021/209	Issue Date	15/1;	2/2021
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 09/12/2021	Environmental Condition of Lab	Temp ° C	Humidity %
order r Heidrenieb	The poil dates and interest	Environmental contration of Lab	28.1	66
Sampling point	L.S.C Colony			
Sample details	Drinking Water	Date of collection	09/1	2/2021
Sample Collected by	SEEPL Representative	Sample Received On	09/12	2/2021
Analysis Started On	09/12/2021	Analysis Completed On	15/12	2/2021
Sample Container	Glass bottle	Sample Quantity	1000	i ml

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Arlandeep Sawant Authorized Signatory

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BRANCH OFF. 1 310, Dempo Towers, EDC Patte, Paner 400 001, Gea State, india (2) : (0032) 2437046 / 2437164 E-stall: sadekarenvisio@endffmal.com \* Website: www.sadekarenvisio.com \* CIN\_\_11452004a1(ISSET17\_116170)

### Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	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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SINE WRITER STACLIFE

	ANALYSIS REPO	RT FOR WATER	R SAMPLE			
Report No.	SEE/12/2021/227	Issue	Date		15/12/	2021
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 09/12/2021	Environmenta	Condition of Lab		0 ° C	Humidity %
order i resterence	Pa por union unitation i	Envertine	Containon of Los	28.1		66
Sampling point	P.T.B					
Sample details	Drinking Water	Date of	Date of collection		09/12/2021	
Sample Collected by	SEEPL Representative	Sample Received On			09/12/2021	
Analysis Started On	09/12/2021	Analy	sis Completed On		15/12/	2021

Sample Quantity

Microbiological Parameters

Sample Container

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

Note: Test results related only to the sample tested.

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Glass bottle

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NDEPO Nandkumar Desai Reviewed By

Achandeep Sawant Authorized Signatory

1000 ml

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### Equipment Calibration Details

_				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/12/2021/369	Issue Date	22/12	/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 16/12/2021	Environmental Condition of Lab	Temp °C	Humidity %			
Gradi / Helerende	Pro par adilos Tor relevel	Environmenter containent of con-	28.4	65			
Sampling point	K.M.V Colony						
Sample details	Drinking Water	Date of collection	16/12/2021				
Sample Collected by	SEEPL Representative	Sample Received On	16/12/2021				
Analysis Started On	16/12/2021	Analysis Completed On	22/12	/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( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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Nandkumar Desai Reviewed By

Anandeep Sawant

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### Equipment Calibration Details

_		Calibratio		on Details	
Sr. No.	Fouriert Name	Equipment Id	Certificate No.	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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SAVE MUNICIPAL SERVE UPF

	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/12/2021/225		Issue Date	15/12/20	21	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	Active delete 00/10/0001	Trailing	·		Humidity %	
	As per dated 09/12/2021	Environmental Condition of Lab		28.1	66	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP					
Sample details	Inlet Water		Date of collection	09/12/2021		
Sample Collected by	SEEPL Representative		Sample Received On	09/12/2021		
Analysis Started On	09/12/2021	09/12/2021 Analy		15/12/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml		

Chem	ical	Par	am	et	ers	
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Sr. No.	Parameters	Results	Unit	Method
1.	pН	6.41		APHA( 23#Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1680.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	575.00	rng/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	254.00	mg/lit	APHA( 23 <sup>st</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	15.40	mg/lit	APHA( 23 <sup>st</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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Mugdha Gawade Analyzed By

NDES-0-Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

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### Equipment Calibration Details

*****				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/12/2021/226	SEE/12/2021/226 Issue Date					
Name of Client	M/s. Megawide Constructio C/o GMR Goa International		imited				
Address of Client	Mopa, Goa						
Order / Belowara		Carlos	and the states	Temp ° C	Humidity %		
Order / Reference	As per dated 09/12/2021	Enviro	nmental Condition of Lab	28.1	66		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	ng Procedure No.	SEEPL/QSP	SEEPL/QSP-10		
Sampling point	STP		College and Suminanen				
Sample details	Outlet Water		Date of collection	09/12/2021			
Sample Collected by	SEEPL Representative		Sample Received On	09/12/2021			
Analysis Started On	09/12/2021	Analysis Completed On		09/12/2021 Analysis Completed On		ted On 15/12/2021	
Sample Container	Glass Bottle + PVC Can	Sample Quantity 1000 ml + 10		+ 1000ml			

Sr. No.	Parameters	Results	Unit	*Limits	Method
1,	pН	6.93		5.5 - 9.0	APHA( 23*Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	120.00	mg/lit	250.00	APHA( 23rtEdition ) 5220-B
3. Biochemical Oxygen Demand (27°C 3 day)(BOD)		19.63	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	53.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	6,40	mg/lit	10.00	APHA( 23 <sup>st</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

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### Equipment Calibration Details

*****	Sr. Equipment Name No.			Calibration Details			
		Equipment Id	Certificate No.	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 REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/12/2021/289		Issue Date	18/12/2021		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited			
Address of Client	Mopa, Goa					
Order / Reference	As per dated 13/12/2021	needed 49/40/0003		Temp º C	Humidity %	
Order / Heterence	Me per dated 15/12/2021 Chin		nmental Condition of Lab	28.5	68	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP (KMV)		An line of the second and the set if the			
Sample details	Inlet Water		Date of collection	13/12/2021		
Sample Collected by	SEEPL Representative		Sample Received On	13/12/2021		
Analysis Started On	13/12/2021		Analysis Completed On	18/12/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml +	1000 ml + 1000ml	

#### **Chemical Parameters**

Sr. No.	Parameters	Results	Unit	Method
1.	pН	6.26	9	APHA( 23rdEdition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	392.00	mg/lit	APHA( 23*/Edition ) 5220-8
З.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	145.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	132.00	mg/lit	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	10.40	mg/lit	APHA( 23=Edition ) 5520-0 &G

Note: Test results related only to the sample tested.

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Shweta Sawant Analyzed By

NDESG Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

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Gazztind By Ministry of Environment, Forest & Climate Change, Goxt Of India, S. O. (67 (6))

BRANCH OFF. 1 310, Dempti Towers, EDC Patto, Panaji-403 001. Gon State, India (2): (0832) 2437048 / 2437184 E-mail: anterware information - Wetching areas and Education - City, 14550048410000717, 145500

### Equipment Calibration Details

*****				Calibration Details			
Sr. No.		Equipment Id	Certificate No.	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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MAKE WRITER SPINELINE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/12/2021/289	Issue Date	18/12/20	21		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited			
Address of Client	Mopa, Goa					
Order / Defenses	As an elabert 10/10/001	Franker	and the second second	Temp ° C	Humidity %	
Order / Reference	As per dated 13/12/2021 E		nmental Condition of Lab	28.5	68	
Sampling Plan	SEEPL/LD/FMT- 54	SEEPL/QSP-10				
Sampling point	STP (KMV)					
Sample details	Outlet Water		Date of collection	13/12/2021		
Sample Collected by	SEEPL Representative		Sample Received On	13/12/2021		
Analysis Started On	13/12/2021		Analysis Completed On	18/12/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	1000 ml + 1000ml	

Unemical Parameters	Chen	nical	Parameters
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Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	рН	7.07		5.5 - 9.0	APHA( 23#Edition ) 4500 H+-B
2. Chemical Oxygen Demand (COD)		16.00	mg/lit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3. Biochemical Oxygen Demand (27ºC 3 day)(BOD)		4.60	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oll & Grease (O & G)	2.00	mg/lit	10.00	APHA( 23rdEdition ) 5520-O &G
6.	Ammonia	1.68	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	6.80	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### **Microbiological Parameters**

8. Faecal coliforms at 44.5°C 33 MPN 100 APHA ( 23 <sup>st</sup> Edi	tion ) 9221-E	PHA ( 23 <sup>rd</sup> Edition ) 9221-E
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1. Shweta Sawant 00 2. Anisha Parab Analyzed By

NEO Nandkumar Desai Reviewed By

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### Equipment Calibration Details

	1			Calibration Details			
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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		



B-306/207, Ptol No. 81, Patel Estate, Reis Magos, Verem, Alto, Oki Betim Road, Bandra, Porvorim, Panaji-Gos-403 101. Goa Blate, India. IO .: (0832) 2411322 / 2411323 \* E-mail : starladgea@pradifimal.com Lab accredited by MoEF & CC Valid up to 03.11.2023 + Certified by ISO 9001;2015 & ISO 45001 : 2018

-34	74 F.	10.00	10.00	
	5.74	AE UR		

		AMB	IENT /	AIR QUAL	ITY MONITORIN	IG RE	POI	RT			
Rep	ort Date	03/02/2	022								
Name of Client M/s. Megawide C C/o GMR Goa inte					n DMCC Airport Limited						
Add	lress of Client	Mopa, Go	a								
San	pling Plan	SEEPL/L	D/FMT	-54 S	ampling Procedure	No.		SEEPL/QSP-1	0		
Sam	ple Collected	By SEEPL Re	presen	tative				07.55			
Moi	nth of Samplin	g January 2	022								
				AMBIEN	T AIR LOCATION						
Loc	ation of ambie	nt air station	Mop	a Boundary	y (Goa State) (G-A1)						
Average Ambient Temperature (°C) 31.7			Average	e Humidity (%)		59	Latitude	N 15º45'	51.1"		
Average Wind Speed (km/hr) 1.8			Average	Average Wind direction (Deg) 224				E 73956'3	32.4"		
Inst	ruments Used		FPS(	APM-550), RDS(APM-460) &GPS (APM - 411)							
Sr.	Date of	Demant No.				PARA	MET	ERS			
No	Sampling	Report No.		PM <sub>t0</sub>	PM <sub>2.5</sub>	S	2	NOx	CO	SPM	
1.	03/01/2022	SEE/AR/01/2022	/0054	83.34	38.55	4.5	54	<6,00	0.06	124.25	
2.	06/01/2022	SEE/AR/01/2022	/0123	72.83	27.61	3.4	13	6.12	0.05	102.53	
3.	10/01/2022	SEE/AR/01/2022	/0173	56.79	21.75	4.3	52	8.15	0.07	78.64	
4.	13/01/2022	SEE/AR/01/2022	/0248	67.09	16.47	<3.	00	6.70	0.05	84.67	
5.	17/01/2022	SEE/AR/01/2022	/0348	87.50	19.09	3.3	34	8.50	0.11	149.85	
б.	20/01/2022	SEE/AR/01/2022	/0418	84.10	32.31	<3.	00	7.67	0.09	145.49	
7,	24/01/2022	SEE/AR/01/2022	/0452	88.72	45.31	43	)6	6.94	0.07	157.40	
В.	27/01/2022	SEE/AR/01/2022	/0523	86.08	31.73	4.9	95	7.83	0.10	180.45	
9.	31/01/2022	SEE/AR/01/2022	/0549	86.12	28.57	5.0	04	9.67	0.06	127.36	
	NAA	QS Limits*		100	60	8	0	80	4		
		Units		µg/ m <sup>3</sup>	µg/m³	μġ/	m <sup>y</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	
_	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	18.5		IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV	

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

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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- : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.
- : Test methods of analyzed parameters are back side of analysis report.

1)Dipali Sawant 2)Akash Pattade Analyzed by

NORIGI Nandkumar Desai Reviewed by



HEAD OFF. & LAB : Plot No. A-05, Rood No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Meharautera Stata, India. 7 (01 22) 2563 2021 / 2563 2022 / 2563 2023 / 2563 2024 • E-sul ( producated area in cost / predictar - 2000 Page 228 of 430

Dazetted Sy Ministry of Environment, Forest & Climate Change, Gost Of India, 5. D. #57 (6)

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-: 310, Dempo Towers, EDC Patto, Panaji 403 001, Gua Stale, India C : (0832) 2437048 / 2437164 E-mail: sadekarenviro@redifimal.com \* Website: www.sadekarenviro.com + CIN - (J45208M-H998PTC-116378

#### 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	FP5 - APM 550 MINI	E1/FF/630	20/02/2021	19/02/2022

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



B-3080307, Patri No. 61, Patel Estate, Res Magos, Verem, Alto, Oct Better Road, Bantez, Pervolen, Panelj-Goa-463 101, Goa State, India. *17* (0032) 2411322 / 2411323 E-mail: startubgood(rest/final.scm) Lab according by MoEE & CC WebJ up to 03.11.2023 & Certified by ISIO 9601(2015-8 ISIO 45601) 2018. SAME WRITER SAME LIFE

		AMB	IENT /	AIR QUA	LITY MONITORI	NG F	REPO	RT		
Rep	ort Date	03/02/	2022							
Nan	ne of Client		hat .		tion DMCC tal Airport Limited					
Add	ress of Client	Mopa, (	oa							
San	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procedu	re No	13	SEEPL/QS	P-10	
San	ple Collected I	By SEEPL I	leprese	ntative						
Mor	th of Samplin	g January	2022							
				AMBIE	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Shen	necheadva	an Boundary(Goa St	tate) (	G-A2)			
Ave	rage Ambient	Temperature (°C)	31.8	Averag	ge Humidity (%)		68	Latitude	N 15º42'0	6.1"
Ave	rage Wind Spe	ed (km/hr)	1,6	Averag	e Wind direction (I	Deg)	234	Longitude	E 73º49'2	1.5*
Inst	ruments Used		FPS(	APM-550	), RDS(APM-460) &	GPS (	APM -	411)		
Sr.	Date of	Report No.	Depart No.			PAR	AMET	ERS		
No	Sampling	Report No.		PM <sub>10</sub>	PM2.5	S	02	NOx	CO	SPM
1,	03/01/2022	SEE/AR/01/2022	/0055	62.26	25.32	<3	.00	6.66	0.06	89.24
Z.	06/01/2022	SEE/AR/01/2022	/0124	67.20	45.53	<3	.00	7.81	0.03	113.9
3.	10/01/2022	SEE/AR/01/2022	/0174	30.86	20.71	3.	78	8.77	0.05	51.65
4.	13/01/2022	SEE/AR/01/2022	/0249	64.31	28.44	<3	.00	<6.00	0.07	93.82
5,	17/01/2022	SEE/AR/01/2022	/0349	66.78	13.02	<3	.00	9.51	0.09	106.2
6.	20/01/2022	SEE/AR/01/2022	/0419	71.91	21.62	<3	.00	7.04	0.08	97.85
7.	24/01/2022	SEE/AR/01/2022	/0453	84.63	44.79	3.	45	6.67	0.05	171.0
8.	27/01/2022	SEE/AR/01/2022	/0524	81.54	36.51	3.	09	7.84	0.13	161.93
9,	31/01/2022	SEE/AR/01/2022	/0550	80.81	25.78	- 4,	83	9.82	0.07	114.4
	NAA	QS Limits*		100	60	8	0	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg	/m <sup>2</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
2	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 1 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

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

1)Dipali Sawant 2)Akash Pattade Analyzed by

Nandkumar Desai Reviewed by



ep Sawant Authorized Signatory

HEAD OFF, & LAB : Phot No. A 55, Road No. 18, Kasan Negar Road, M.LD C. Wagle Industrial Anna, Thema 400 654, Mahamattan State, Inde. () (01-20) 2563 3321 / 2563 3322 / 2563 3324 • E-mail : phi@sadekammins.com / paedekar5@pm Page 230 of 430

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

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F. 1310, Dempo Towers, EDC Patto, Panaji-403 001, Gpa State, India (D.) (0832) 2437048 / 2437154 E-mail: sadakarenviro@rediffmail.com \* Websile: www.sadekarenviro.com \* CdV - 1345200MH1988F7C-116379

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RD5- 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

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



B-306/307, Plot No. 61, Patel Estate, Res Mages, Venes, Alto, Cld Bellm Road, Bardez, Porvocis, Panaji-Goa-403 101. Gos State, India. 40 .: (0632) 2411322 / 2411329 \* E-mail: startabgoa@motifimal.com Lab occarded by MoEF & CC Valid up to 03.11.2023 + Certified by ISO 9001:2015 & ISO 45601 / 2018

SAVE CLEATER STATIST

		AMBI	ENT A	IR QUA	LITY MONITORI	NGF	EPO	RT		
Rep	ort Date	03/02/2	2022							
Nan	ne of Client				tion DMCC al Airport Limited					
Add	ress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	.D/FM	T- 54	Sampling Procedu	re No	22	SEEPL/QS	P-10	
Sam	ple Collected	By SEEPL R	eprese	ntative						
Mor	th of Samplin	g January	2022							
		fillion fillion fillion		AMBIEN	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Nagz	ar(Goa St	ate) (G-A3)					
Ave	rage Ambient	Temperature (°C)	30.9	Averag	e Humidity (%)		72	Latitude	N 15º45'3	7.3"
Ave	rage Wind Spe	ed (km/hr)	2.0	Averag	Average Wind direction (Deg) 216		216	Longitude	E 73º53'14.22"	
Inst	ruments Used		FPS(	APM-550)	), RDS(APM-460) &	GPS (	APM -	411)		
Sr.	Date of	Depart No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>25</sub>	S	01	NOx	CO	SPM
1.	03/01/2022	SEE/AR/01/2022,	0056	29.73	27,40	<3	.00	<6.00	0.06	58.24
2.	06/01/2022	SEE/AR/01/2022,	0125	67.63	26.82	3.	00	6.55	0.07	65.08
3,	10/01/2022	SEE/AR/01/2022,	0175	15.45	8.32	3.	18	9.63	0.05	23.89
4.	13/01/2022	SEE/AR/01/2022,	0250	62.10	31.40	<3	.00	<6.00	0.03	94.28
5.	17/01/2022	SEE/AR/01/2022,	/0350	41.79	11.39	4.	70	7.87	0.07	54.75
6.	20/01/2022	SEE/AR/01/2022	0420	40.64	17,30	4.	78	<6.00	0.06	58,77
7.	24/01/2022	SEE/AR/01/2022,	/0454	87.58	38.42	4.	52	6.15	0.05	141.8
8,	27/01/2022	SEE/AR/01/2022,	0525	86.23	42.08	4.	79	8.58	0.08	135.9
9.	31/01/2022	SEE/AR/01/2022	0551	51.94	21.50	4.	23	8.61	0.03	78.27
	NAA	QS Limits*		100	60	8	0	80	4	-
		Units		µg/ m3	µg/m <sup>3</sup>	μg	/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
0	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 1 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

Note : Test results related only to the sample tested.

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

1)Dipali Sawant 2)Akash Pattade Analyzed by

NDESCH Nandkumar Desai Reviewed by



ideep Sawant

Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Roat No. 16, Visan Nagar Roat, M.LD.C. Wagle Industrial Area, Thure - 400-604. Materiativa Blate, India (\*) (91-22) 2583 3321 ( 2583 3322 ) 2585 3323 / 2583 3324 + E-meil : profite betaren / profite betaren

Gazetted By Ministry of Environment, Forest & Clenate Change, Govt Of India, S. O. 167 (E)

BRANCH OFF. : 310, Dempo Towns, EDC Patto, Panaji 403 001. Goa State, India 🐑 : (0832) 24371548 / 2437154 E-mail: sadeknewning@eedfmail.com \* Website: www.sadekanenvins.com + CIN - U45209MH1098PTC-116379

#### 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 5ampler (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

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



B-306/307, Plot No. 61, Patel Estate, Reis Mages, Veren, Allo, Oil Bellin Road, Bantez, Porvorm, Paragi-Goa-403 101, Goa State, India. ② :: (0032) 2411322 / 2411323 € E-mail : startotigooi@reditmail.com Lab accredited by MoEF & CC Veriet up to 03.11.2023 € Certified by ISO 9001.2015 & ISO 45001 : 2018 SPACE LIPITER SPACE LIPIC

		AMB	ENT A	IR QUA	LITY MONITORI	NG F	REPO	RT		
Rep	ort Date	03/02/3	2022							
Nan	ne of Client				tion DMCC al Airport Limited					
Add	iress of Client	Mopa, G	oa	VI-1277527-VU						
San	pling Plan	SEEPL/	.D/FM	F-54	Sampling Procedur	e No	2	SEEPL/QSI	P-10	
San	ple Collected	By SEEPL F	eprese	ntative				11211111111111111111111111		
Mot	nth of Samplin	g January	2022							
		4.000.100017		AMBIE	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Purv	a Casarva	rnem (Goa State)(G-	A4)				
Ave	rage Ambient	Temperature (°C)	31.5	Averag	e Humidity (%)		73	Latitude	N 15º41'4	1.9"
Ave	rage Wind Spe	ed (km/hr)	1.6	Averag	e Wind direction (D	eg)	231	Longitude	E 73º50'1	6.6*
inst	truments Used		FPS(	APM-550	), RDS(APM-460) &(	iPS (	APM -	411)		
Sr.	Date of	Design H				PAR	AMET	ERS		
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	S	02	NOx	CO	SPM
1.	03/01/2022	SEE/AR/01/2022	/0057	55.25	32.27	<3	1.00	6.80	0.03	88.58
2.	06/01/2022	SEE/AR/01/2022	/0126	68.33	37.80	<3	00.1	7.76	0.06	107.18
З.	10/01/2022	SEE/AR/01/2022	/0176	34.86	16.80	3	.63	8.34	0.05	51.80
4.	13/01/2022	SEE/AR/01/2022	/0251	57.23	26.57	3	48	<6.00	0.05	84.37
5.	17/01/2022	SEE/AR/01/2022	/0351	54.91	17.13	<	3.00	8.42	0.08	77.97
6.	20/01/2022	SEE/AR/01/2022	/0421	87.10	33,02	3	27	7.77	0.09	179.35
7.	24/01/2022	SEE/AR/01/2022	/0455	78.04	51.90	4	13	<6.00	0.06	181.61
8.	27/01/2022	SEE/AR/01/2022	/0526	80.13	47.78	3	55	8.66	0.07	172.31
9.	31/01/2022	SEE/AR/01/2022	/0552	77.53	30.90	<3	3.00	7.70	0.05	125.21
	NAA	QS Limits*		100	60	1	30	80	4	-
-		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg	/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1.0.07.0	5182 rt 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV)

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

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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- : Test methods of analyzed parameters are back side of analysis report.

1)Dipali Sawant NEWA 2)Akash Pattade ( Nandkumar Desai feep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF, & LAB 1: Phot No. A-95. Road No. 16, Kisan Nagar Road, MJ.D.C. Wagle Industrial Area, Thems - 400.004. Matacashtra State, India. (C) (07-22) 2563 3321 / 2583 3322 / 2563 3323 / 2563 3323 / 2563 3324 + E-mail: pro@sadekarenviro.com / psadekarenviro.com / psadekarenviro.co

Gandted by Mivietry of Environment, Forest & Climate Change, Gost Of India, S. O. 157 (E)

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F. 1310, Dempo Towers, EDC Patto, Panap-403 001, Goo Blate, Ioda (D : (0832) 3437048 / 2437164 E-mail: cadel/committee/interferent/committee/interference/inte

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (5R No. 01 DT L14)	20/11/2021	19/11/2022



B-306/307, Plut No. 61, Patel Estate, Reis Megos, Verem, Alto, Old Beten Road, Bardez, Porvorim, Panaj-Goa-403 101. Goa State, India, 40 - (0832) 2411322 / 2411325 \* E-mail - startalsgra@molifimal.com Lob accordited by MoEP & CC Valid up to 03.11.2003 + Certified by ISO 9001:2015 & ISO 45001 / 2018

2.0	C. (J. J. 1	
- 53	2.611	-
	Sec. 14	

		AMB	IENT A	AIR QUA	LITY MONITORIN	IG REF	PORT			
Rep	ort Date	03/02/2	022							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	ress of Client	Mopa, G	Mopa, Goa							
Sam	pling Plan	SEEPL/I	D/FM	r- 54	Sampling Procedure	No.	SEEPL/QSP-1	10		
Sam	ple Collected	By SEEPL R	eprese	ntative						
Mot	th of Samplin	g January	2022							
				AMBIEN	IT AIR LOCATION					
Loc	ation of ambie	nt air station	Khaji	ne Amere I	orscodem (Goa Sta	te) (G-A	.5)			
Ave	rage Ambient	Temperature (°C)	30.7	Average	e Humidity (%)	72	Latitude	N 15º40'3	8.0*	
Average Wind Speed (km/hr) 1.6			1.6	Average Wind direction (Deg) 211		1 Longitude	E 73º46'21.2"			
.nst	ruments Used		FPS[	APM-550),	RDS(APM-460) &G	PS (AP)	4 - 411)			
Sr.	Date of	Report No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	S02	NOx	CO	SPM	
1.	03/01/2022	SEE/AR/01/2022,	0058	29.31	18.46	<3.0	0 6.46	0.06	50.55	
2.	06/01/2022	SEE/AR/01/2022,	0127	40.74	21.58	3.40	<6.00	0.04	63,33	
3.	10/01/2022	SEE/AR/01/2022	0177	16.84	6.86	<3.0	0 8.37	0.03	23.77	
4.	13/01/2022	SEE/AR/01/2022	0252	27.93	10.10	3.39	7.64	0.05	38.39	
5.	17/01/2022	SEE/AR/01/2022	0352	23.77	11.48	<3.0	9.22	0.03	39.78	
6,	20/01/2022	SEE/AR/01/2022	0422	48.56	14.47	6.85	<6.00	0.07	65.85	
7.	24/01/2022	SEE/AR/01/2022,	0456	78.57	40.29	3.95	<6.00	0.08	130.9	
8.	27/01/2022	SEE/AR/01/2022,	0527	81.10	36.30	4.19	10.66	0.06	159.7	
9,	31/01/2022	SEE/AR/01/2022,	0553	35.85	14.72	4.35	9.28	0.05	56.30	
	NAA	QS Limits*		100	60	80	80	4	-	
-		Units		µg/m3	µg/m <sup>a</sup>	µg/n	η <sup>3</sup> μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m	
_	1	Method		IS 5182( Part 23)	Lab SOP NO: SEE/LD/SOP-AA-04	IS 518 (Part 0	Contraction of the second s	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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NDGIG Nandkumar Desai Reviewed by



indeep Sawant Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patho, Panaji-403 601, Goa State, India 🕲 (0832) 2437048 / 2437164 E-mail: andekorerv/mdErediffmail.com \* Weballs : www.nadekorurv/m.com \* CiN - L462004H1005PTC-116379

#### 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)	LE5-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

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



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STACLERING SPACING

		AMB	ENT A	AIR QUAL	ITY MONITORIN	IG RE	PORT		
Report Date 03/02/2022									
Nan	ne of Client			Construct	ion DMCC al Airport Limited				
Add	lress of Client	Mopa, G	oa		The second se				
Sam	pling Plan	SEEPL/	_D/FM	Г- 54	Sampling Procee	lure No	. SEEPL/QS	P-10	
Sam	ple Collected	By SEEPL R	eprese	ntative					
Mor	nth of Samplin	g January	2022						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Rajvi	l Wada To	rxem (Goa State)(G	A6)			
Ave	rage Ambient	Temperature (°C)	31.1	Average	Humidity (%)	69	Latitude	N 15º48'	40.0*
Average Wind Speed (km/hr) 1.6			Average Wind direction (Deg) 228		8 Longitude	E 73%52'50.2"			
inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (AP	M - 411)		
Sr. Date of PARAMETERS					_				
No	Sampling	Report No.	sport No.		PM2,5	SO2	NOx	CO	SPM
1.	03/01/2022	SEE/AR/01/2022,	0059	37.90	24.91	<3.00	7.62	0.07	63.63
2.	06/01/2022	SEE/AR/01/2022,	/0128	47.54	13.02	<3.00	8.32	0.06	61.45
3.	10/01/2022	SEE/AR/01/2022,	/0178	22.22	6.69	3.78	8.48	0.03	28.99
4.	13/01/2022	SEE/AR/01/2022	/0253	21.37	20.46	4.03	<6.00	0.05	42.07
5.	17/01/2022	SEE/AR/01/2022,	/0353	27.85	10.48	<3.0	8.17	0.06	39.04
6,	20/01/2022	SEE/AR/01/2022,	/0423	33.93	12.56	<3.0	7.42	0.05	48.96
7.	24/01/2022	SEE/AR/01/2022,	/0457	66.78	45.66	3.26	<6.00	0.07	112.6
8.	27/01/2022	SEE/AR/01/2022,	/0528	59.81	26.70	3.88	9.66	0.08	97.83
9,	31/01/2022	SEE/AR/01/2022,	/0554	90.16	49.03	4.02	9.72	0.10	160.7
	NAA	QS Limits*		100	60	80	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m	<sup>3</sup> μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0		IS 5182( Part 10)	IS 5182 Part IV

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

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

1)Dipali Sawant 2)Akash Pattade Analyzed by

NORIG Nandkumar Desai Reviewed by



Analideep Sawani

Authorized Signatory

HEAD OFF, & LAB : Phil No. A 05, Roart No. 16, Knan Nagar Road, M.I.D.C. Wagle industrial Area, Thans - 402 604, Maharashtra Iliate, India. 10 (11-21) 2543 3321 (2563 3322 (2563 3323 (2563 3324 E mat ) produced memory com ) produced by Page 238 of 430

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: 310, Dempo Towers, EDC Patto, Panep-403 001. Goe State, India (D): (0832) 2437049 / 2437164 il sadakaremara@redfimail.com \* W in cont • CIM - LIGRONOMATION tinches brozen PTC-140370

#### 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

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



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 ISO 45601 : 2018 SAVE LIPITIAL SAVE LIPE

		AMB	ENT A	IR QUAL	ITY MONITORIN	IG REF	PORT			
Report Date 03/02/2022										
Name of Client M/s. Megawide C/o GMR Goa in					ion DMCC al Airport Limited					
Add	lress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	D/FM	r- 54	Sampling Proces	dure No	. SEEPL/QS	P-10		
San	ple Collected	By SEEPL F	eprese	ntative						
Mor	nth of Samplin	g January	2022							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Satar	da(Mahar	ashtra State)(M-A1)	)				
Ave	rage Ambient	Temperature (°C)	31.5	Average	Humidity (%)	74	Latitude	N15º43'0	1.3*	
Average Wind Speed (km/hr) 1.9			Average Wind direction (Deg) 198			8 Longitude	E 73º46'00.2"			
nst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (AP)	M - 411)			
Sr.	Date of	Report No.		PARAMETERS						
No	Sampling	Report No.	port No.	PM <sub>10</sub>	PM2.5	SO2	NOx	CO	SPM	
1.	03/01/2022	SEE/AR/01/2022	/0060	29.94	11.39	3.08	6.33	0.07	41.80	
Z.	06/01/2022	SEE/AR/01/2022	/0129	46.38	20.25	<3.00	8.42	0.03	68.29	
3.	10/01/2022	SEE/AR/01/2022	/0179	18.46	8.52	5.74	8.55	0.06	27.26	
4.	13/01/2022	SEE/AR/01/2022	/0254	37.27	11.31	<3.00	<6.00	0.05	48.81	
5.	17/01/2022	SEE/AR/01/2022	/0354	29.62	8.19	<3,00	6.68	0.03	44.32	
6.	20/01/2022	SEE/AR/01/2022	/0424	45.96	18.30	<3.00	7.16	0.06	65.27	
7.	24/01/2022	SEE/AR/01/2022	/0458	85.97	32.19	3.09	<6.00	0.05	119.49	
8,	27/01/2022	SEE/AR/01/2022	/0529	79.60	28.69	4.33	9.35	0.03	126.08	
9.	31/01/2022	SEE/AR/01/2022	/0555	35.32	15.18	4.43	8,76	0.06	52.28	
	NAA	QS Limits*		100	60	80	80	4	-	
		Units		µg/ m3	µg/m <sup>3</sup>	µg/m	<sup>3</sup> μg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m	
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0)		IS 5182( Part 10)	IS 5182 Part IV	

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

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Nandkumar Desai Reviewed by



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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 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

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



5-306/307, Plot No. 61, Palet Extrile, Reis Magos, Versm, Alto, Old Beitm Hoad, Bardsz, Porvores, Panaj-Goa-403 101. Goa Bale, India. 40 : (0832) 2411322 / 2411323 \* E-mail: startal-goa@rediffmail.com Lab accredited by MeEF & CC Valid up to 03.11 2023 \* Certified by ISO 9001/2015 & ISO 45501 / 2018

SAME ILLEADER SEWE LIFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REPO	ORT		
Report Date 03/02/2022									
Nan	ne of Client			Construct	ion DMCC al Airport Limited				
Add	lress of Client	Mopa, G	oa		Ville Contraction and Contraction				
Sam	pling Plan	SEEPL/1	.D/FM	r- 54	Sampling Procee	iure No.	SEEPL/QS	P-10	
San	ple Collected I	By SEEPL R	eprese	ntative					
Mor	ith of Sampling	g January	2022						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Ding	na(Mahara	shtra State)(M-A2)	8		2.2	
Ave	rage Ambient	Temperature (°C)	31.2	Average	Humidity (%)	69	Latitude	N 15046'1	2.3"
Average Wind Speed (km/hr) 1.8			Average Wind direction (Deg) 213			Longitude	E 73º49'20.5"		
inst	ruments Used		FPS{	APM-550),	RDS(APM-460) &G	PS (APM	-411)		
Sr.	Date of PARAMETERS								
No	Sampling	Report No.	eport No.		PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	CO	SPM
1.	03/01/2022	SEE/AR/01/2022	/0061	22.04	12.60	<3.00	<6.00	0.05	34.98
2.	06/01/2022	SEE/AR/01/2022	/0130	35.61	20.83	<3.00	<6.00	0.03	58.11
3.	10/01/2022	SEE/AR/01/2022	/0180	11.93	7.15	4.54	7.57	0.06	19.18
4.	13/01/2022	SEE/AR/01/2022,	0255	30.91	12.31	<3.00	<6.00	0.03	43.58
5.	17/01/2022	SEE/AR/01/2022	/0355	21.16	9.19	3.03	7.45	0.05	33.42
6,	20/01/2022	SEE/AR/01/2022	0425	28.15	10.94	4.40	7.44	0.06	45.68
7.	24/01/2022	SEE/AR/01/2022	/0459	55.91	28.19	3.03	<6.00	0.07	84.43
8.	27/01/2022	SEE/AR/01/2022	0530	72.45	44.12	3.61	9.09	0.08	117.17
9.	31/01/2022	SEE/AR/01/2022,	0556	59.13	20.38	4.11	9.01	0.05	82.19
	NAA	QS Limits*		100	60	80	80	4	
		Units		µg/ m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

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1)Dipali Sawant 2)Akash Pattade 😽 Analyzed by

ND Q Q Q Nandkumar Desai Reviewed by

Seep Sawant Authorized Signatory

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#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR ND. 1902-DTJ-2014)	LES-CCL/FF/MF/SC/1148	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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



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SIVE WRITEN SHAFLER

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG RE	POR	г		
Rep	ort Date	03/02/2	2022							
Name of Client M/s. Megawi C/o GMR Goa					ion DMCC al Airport Limited					
Add	iress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	.D/FM	Г- 54	Sampling Procee	iure No	5.	SEEPL/QSI	2-10	
San	ple Collected I	By SEEPL R	eprese	ntative				111.		
Month of Sampling January 2022										
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Neta	rde(Mahar	ashtra State)(M-A3	)				
Average Ambient Temperature (°C) 30.9				Average	Humidity (%)	73	3 1	atitude	N 15º46'	1.7"
Ave	rage Wind Spe	ed (km/hr)	1.7	Average Wind direction (Deg) 210			10 1	Longitude E 73º50'48.0"		8.0*
nst	truments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (AP	M - 4	11)		
Sr.	Date of	Report No.		19652		PARA	METE	the state of the s		
No	Sampling			PMto	PM2.5	SO,		NOx	CO	SPM
1.	03/01/2022	SEE/AR/01/2022/	0062	75.86	34,68	<3.0	0	6,76	0.05	111.4
2.	06/01/2022	SEE/AR/01/2022)	0131	68.85	16.30	<3.0	0	8.23	0.06	85.51
3.	10/01/2022	SEE/AR/01/2022/	/0181	32.41	11.85	3.08	8	8.61	0.03	44.51
4.	13/01/2022	SEE/AR/01/2022/	/0256	65.67	24.87	<3.0	0	<6.00	0.05	90.84
5.	17/01/2022	SEE/AR/01/2022,	/0356	25.44	8.44	3.98	3	7.50	0.06	34.56
6,	20/01/2022	SEE/AR/01/2022,	/0426	57.27	23.33	<3.0	0	6.56	0.03	80.76
7.	24/01/2022	SEE/AR/01/2022	/0460	87.72	34.31	<3.0	0	<6.00	0.05	128.5
8.	27/01/2022	SEE/AR/01/2022	/0531	78.30	45.34	8.55	5	9.40	0.10	155,4
9.	31/01/2022	SEE/AR/01/2022;	/0557	76.98	19.92	3.60	)	9,85	0.07	98.39
	NAA	QS Limits*		100	60	80		80	4	
		Units		µg/ m <sup>3</sup>	µg/m³	µg/n	n <sup>x</sup>	µg/m <sup>3</sup>	mg/m <sup>1</sup>	µg/m
2	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part 0		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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1)Dipali Sawant 2)Akash Pattade Analyzed by

NDEROJ Nandkumar Desai Reviewed by



Authorized Signatory

HEAD OFF. & LAB - Piol No. A RE. Float No. 16, Kisen Weger Road, M.D.C. Wege Industrial Area, Thane - 402 604, Maharashtra State, India. 25 (01-22) 2583 3321 ( 3583 3322 ) 2583 3323 ( 2583 3324 + 5 mill ) and same and some particular filter Page 244 of 430

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HRANCH OFF. 🗧 310, Dempo Towns, EDC Patis, Panaji-463 001, Gna State, India 🕄 (0832) 2437048 / 2437164 E-mail: sadekaranviro@mdiffmail.com + Websile: www.sateharanviri.com + CIN - U45209AeH1990PTC-116370

#### 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/5C/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 MIN	LES-CCL/FF/MF/SC/1155	15/07/2021	14/07/2022

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



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SAVELIN

AMBIENT AIR QU	ALITY MONITORING	REPORT		
SEE/AR/01/2022/0357	Date of issue		24/01/202	22
Mopa, Goa				
SEEPL Representative	Ĩ	Environmen	ital condition of Lab	
17/01/2022	Temperature(°C)	28.2	Humidity (%)	68
18/01/2022	Analysis Completed On 24/01/2022			
	SEE/AR/01/2022/0357 M/s. Megawide Constructio C/o GMR Goa international Mopa, Goa SEEPL Representative 17/01/2022	SEE/AR/01/2022/0357     Date of it       M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited     Mopa, Goa       Mopa, Goa     SEEPL Representative       17/01/2022     Temperature(°C)	M/s. Megawide Construction DMCC         C/o GMR Goa international Airport Limited         Mopa, Goa         SEEPL Representative         17/01/2022         Temperature(°C)         28.2	SEE/AR/01/2022/0357       Date of Issue       24/01/202         M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited

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

NDERG Nandkumar Desai Reviewed by



And hope p Sawant

Authorized Signatory

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BRANCH OFF. 310, Dempo Towers, EDC Patts, Panap-403-001, Goa State, India (2) : (0832) 2437040 / 2437164 webiffernail car CON + CIN - UNIVOUNT USUBPTC 19079 E-m lo contrato Links

#### Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	E1/FF/635	19/02/2021	18/02/2022



B-306(357, Piol No. 61, Patert Estate, Reis Magos, Venem, Alto, Old Betim Road, Bardez, Pervorim, Panaj-Goa-403 101. Goa State, India. 10 .: (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com Lab accredited by MnEF & CC Value up to 03.11.2023 \* Centried by ISO 9001:2015 & ISO 45001 : 2018

SPACE LEFTING SAVE UPE

	AMBIENT AIR QU	ALITY MONITORI	IG REPORT		
Report No.	SEE/AR/01/2022/0358 Date of Issue 24/01/2022				
Name of Client	M/s. Megawide Construction C/o GMR Goa international				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative Environmental condition of Lab				
Date of Sampling	17/01/2022	Temperature(4	28.2	Humidity (%)	68
Analysis Started On	18/01/2022 Analysis Completed On 24/01/2022				
	AMBIENT	AIR LOCATION			

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

#### Chemical Testing - Atmospheric Pollution

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

Note : Test results related only to the sample tested.

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

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NORA Nandkumar Desai Reviewed by



ep Sawant And Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Kinen Negar Road, M.J.D.C. Wagie Industrial Anna, Thans - 400 604, Mathanashtas State, India. 2 (01.22) 240 3021 / 250 3022 / 250 3021 / 250 1021+ L-mat. prograditation of conducting on Page 248 of 430 Gazetted By Ministry of Environment, Forest & Climate Change, Gost Of India, S. O. 857 (E)

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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



B-300/367, Plot No. 61, Patel Estate, Faits Magos, Voram, Alto, Old Betim Road, Bardaz, Porvolm, Panaj-Goa-403 101, Goa State, India 30 : (0632) 2411322 / 2411329 € E-mail : startutgood@rediffmail.com Late accredited by MoEF & CC Valid up to 03.11.2023 € Certified by ISC 9001-2015 & ISO 40001 : 2018 SAME MILLINE SHAFE FILE

Report No.	SEE/AR/01/2022/0359	Date of	SSU0	24/01/200	22
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa	Mopa, Goa			
Sample Collected By	SEEPL Representative		Environmen	ital condition of Lab	8
Date of Sampling	17/01/2022	Temperature( <sup>4</sup> C)	28.2	Humidity (%)	68
Analysis Started On	18/01/2022	Analysis Completed On 24/01/2022			

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

Chemical Testing - Atmospheric Pollution

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

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling.
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Nandkumar Desai Reviewed by



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BRANCH OFF, 510, Dempo Towers, EDC Patto, Paneji-403 001, Goa State, India (0): (0632) 2437048 / 2437164 E-mail::sadakanenvice@redifmail.com • Website::www.sadakanenvicu.com • CBV - U452098H1998PTC-110379

### 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



8-306/307, Plut No. 61, Patet Estate, Rets Mages, Vinem, Alto, Old Bettin Road, Bantez, Porvolete, Panaj-Goa-403 101. Goa State, India. 4D .: (0632) 2411322 / 2411323 \* E-mail : elariobgoa@rediffmail.com Lab accredited by MoEF & CC Valid up to 10: 11 2023 \* Centiled by ISO 9001 2015 & ISO 45001 : 2018

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	NOISE LEVE	EL MONITORING RE	EPORT	
Report No.	SEE/AR/01/2022/0257-0258 0495, 0360, 0534, 0542, 049		Report Date	01/02/2022
Name of Client	M/s. Megawide Construction C/o GMR Goa international A			
Address of Client	Mopa, Goa			
Sample Collected By	SEEPL Representative			
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Pri	ocedure No.	SEEPL/QSP-10
	Chemical Testing - Atr	nospheric Pollution	1	

Sr.	Date of	Report No.	ort No. Station Zone Sampling Location		Sampling Location		Day Time ise in dB(			ight Time ise in dB(	
No	Monitoring	10.00	ID			Lmin	Lmax	Leq	Lmin	Lmax	Leq
1,	13/01/2022	SEE/AR/01/2022/0257	G-N1	1	Mopa Boundary	30.1	79.9	61.5	30.0	68.6	53.3
2.	13/01/2022	SEE/AR/01/2022/0258	G-N2	1	Shemecheadvan Boundary	33.2	77.9	65.6	35.6	74.0	58.0
3,	14/01/2022	SEE/AR/01/2022/0301	G-N3	C	Nagzar	35.3	77.6	59.5	30.8	56.8	49.7
.4.	14/01/2022	SEE/AR/01/2022/0302	G-N4	R	Purva Casarvarnem	30.0	67.7	48.7	30.0	62.1	39.6
5.	17/01/2022	SEE/AR/01/2022/0361	G-N5	R	Chandel	31.4	75.2	49,1	30.3	46.6	38,9
6,	25/01/2022	SEE/AR/01/2022/0495	G-N6	R	Khajne Amere Porscodem	31.6	74.5	49.3	31.1	63.7	39.8
7,	17/01/2022	SEE/AR/01/2022/0360	G-N7	R	Warkhand	34.1	70,4	48.9	33.0	62.2	38.3
8.	29/01/2022	SEE/AR/01/2022/0534	G-N8	C	Rajvil Wada Torxem	30.1	77.4	59.7	31.8	70.2	45.6
9,	30/01/2022	SEE/AR/01/2022/0642	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvern	30.3	79.9	58.5	30.7	53.7	49.1
10.	25/01/2022	SEE/AR/01/2022/0496	M-N1	R	Satarda	32.6	72.3	49.3	30.1	53.9	39.9
11,	29/01/2022	SEE/AR/01/2022/0535	M-N2	R	Dingna	30.0	68.4	44.7	30.0	61.3	39.2
12	30/01/2022	SEE/AR/01/2022/0543	M-N3	R	Netarde	30.0	68,4	49.2	30.0	60.7	38.5

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

Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1965" are as follows:

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

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

"dB(A) 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 Þ human ear.

> Leg: 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

E-mail : sadekaranviro@radifmail.com \* We

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PTC-116379

### 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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SPACE LEVIER SPALLER

	WORKPLACE NO	HSE LEVEL	, MONITORING R	EPORT	
Report No.	SEE/AR/01/2022/0182	0187	Date of Issue		12/01/2022
Name of Client	M/s. Megawide Constru C/o GMR Goa internati				
Address of Client	Mopa, Goa				
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QS	SP-10
Sample Collected By	SEEPL Representative	8			
Date of Sampling	10/01/2022				

#### Chemical Testing - Atmospheric Pollution

No. Ma	Deced No.	Sampling Location	Noise in dB (A)
Sr. No.	Report No.	(From 1.0 meter off)	Day Time
01.	SEE/AR/01/2022/0182	HEMM (Surface Miner)	81.4
02	SEE/AR/01/2022/0183	PTB 1- BHS Trea (K-110)	71.2
03	SEE/AR/01/2022/0184	PTB 2	77.3
04.	SEE/AR/01/2022/0185	Hot Mix Plant	80.5
05.	SEE/AR/01/2022/0186	Crusher CH-2000 (LHS)	76.8
06.	SEE/AR/01/2022/0187	RETWZ (WMM)(Paver with Compaction)	78,9

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

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

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

Leg: It is the energy mean of the noise level over a specified period.  $\mathbf{r}$ 

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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NDERE Nandkumar Desai Reviewed by

Asta deep Sawant Authorized Signatory

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BRANCH OFF. 1 310, Dompo Towers, EDC Patio, Paraji-403-001. Gea State, India 🕐 (0832) 2437048 / 2437164

Calibration Details of Equipment used for Sampling

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

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/344	19/07/2021	18/07/2022



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		STACK EI	MISSION REPORT				
Report No.	SEE/AR/01/20	SEE/AR/01/2022/0244		17/01/2022		8	
Name of Client	M/s. Megawide C/o GMR Goa		n DMCC Airport Limited				
Address of Client	Mopa, Goa						
Sampling Plan	SEEPL/LD/FM	T-54	Sampling Procedu	re No.	SEEPL/QSP-10		
Sample Collected By	SEEPL Repres	entative	E	nvironmer	ntal condition of lab		
Date of Sampling	13/01/2022		Temperature(°C)	28.2	Humidity (%)	69	
Analysis Started On	13/01/2022		Analysis Complete	d On	17/01/2022		
	1	STACK	DETAILS				
Attached To		Diesel C	Generator (500 KVA) (S	r. No.01/1	17/09/1460)		
Shape		Round					
Diamoter		0.12 Mtr					
Height From Ground Level		8.0 Mtr					
Material of Construction		M.S.					
Temperature		393 ºC					
Velocity of Flue Gases		16.61 m/sec					
Volumetric Flue Gas Flow Rate		675.70	m <sup>3</sup> /hour				
Volumetric Flue Gas Flow I	Rate	301.761	Nm²/hour				
Type of Fuel	1999 B.	H.S.D.	······································				
Fuel Consumption		19.00 lit	Ahr				

#### **Chemical Testing - Atmospheric Pollution**

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	SO2	0.09	2.1	Kg/hour	IS 11255(Part II)
02.	NO <sub>X</sub>	0.10	9.2	g/kw-hr	IS 11255(Part VII)
03.	Carbon Monoxide	0.08	3.5	g/kw-hr	By Flue Gas Analyzer
04,	Hydrocarbons	0.06	1.3	g/kw-hr	By Flue Gas Analyzer
05.	Particulate Matter	0.13	0.3	g/kw-hr	IS 11255 (part I)

#### \*\* Consent No.12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.

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

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Susmita Kapdoskar Analyzed by

ND699-Nandkumar Desai Reviewed by

Ananeeto Sawant Authorized Signatory

HEAD OFF, & LAB : Plot No. A 05. Road No. 16, Klase Nager Road, M I D C. Wagle Industrial Area, Thore - 400 IO4. Mehanetrica Date, Inde. (): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3323 / 2583 3323 / 2583 3323 / 2583 3324 + E-mel : progleaded.commin.com / peopletar500pmePage 256 of 430 Gastered by Ministry of Environment, Parent & Chronic Change, Gool Of Inde, S. O. 807 (E) Calibration details of Equipment used for Sampling & Analysis

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

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	EI/ET/306	20/02/2021	19/02/2022

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

### BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Flexi (SI NO.5000391)	14/06/2021	13/06/2022



 B-300/207, Plot No. 81, Peter Estate, New Magos, Veren, Allo, Old Bettin Road, Bardez, Porvoim, Panaj-Goa-403 101, Goa Stata, India. (C): (0632) 2411322 / 3411323 \* E-mail: startistigoeigree/#mail.com Lats accredited by MoEF & CC Valid up to 03, 11 2023 \* Certified by ISO 9001 2015 & ISO 45001 (2019) 

		STACK EM	SSION REPORT		14			
Report No.	SEE/AR/01/20	22/0247	Date of Issue	Date of Issue				
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Address of Client	Mopa, Goa	Mopa, Goa						
Sampling Plan	SEEPL/LD/FM	SEEPL/LD/FMT- 54		re No.	SEEPL/QSP-10	)		
Sample Collected By	SEEPL Repres	SEEPL Representative		Environmental conditi				
Date of Sampling	13/01/2022	13/01/2022		28.2	Humidity (%)	69		
Analysis Started On	13/01/2022	13/01/2022		Analysis Completed On		17/01/2022		
		STACK D	ETAILS					
Attached To		Diesel Ge	nerator No.2 (125 KVA)	(WMM PI	ant)			
Shape		Round	Round					
Diameter		0.07 Mtr	0.07 Mtr					
Height From Ground Level		4.4 Mtr	4.4 Mtr					
Material of Construction		M.S.	M.S.					
Temperature		297 °C	297 °C					
Velocity of Flue Gases		15.85 m/s	15.85 m/sec					
Volumetric Flue Gas Flow	Rate	216.83 m <sup>3</sup>	/hour					

#### 8.5 lithr Chemical Testing - Atmospheric Pollution

113.28 Nm3/hour

H.S.D.

Sr. No.	Parameters	Result	Limits**	Unit	Method	
01.	SO2	0.04	0.525	Kg/hour	IS 11255(Part II)	
02.	NOx	0.15	9.2	g/kw-hr	IS 11255(Part VII)	
03.	Carbon Monoxide	0.06	3.5	g/kw-hr	By Flue Gas Analyzer	
04.	Hydrocarbons	0.04	1.3	g/kw-hr	By Flue Gas Analyzer	
05.	Particulate Matter	0.10	0.3	g/kw-hr	IS 11255 (part I)	

#### \*\*Consent No.12/2020-PCB/510173/00004024

Note : Test results related only to the sample tested.

Volumetric Flue Gas Flow Rate

Type of Fuel

**Fuel Consumption** 

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

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Susmita Kapdoskar Analyzed by

NDERG Nandkumar Desai Reviewed by

And the Sawant Authorized Signatory

HEAD OFF. & LAB : Put No. A.IIS, Road No. 16, Knae Neger Road, M.LD.C. Wagin Industrial Aven, There - 409 004, Miduarantina State, India.

(2) - (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : pro@padeterment.com / padeterfolgen/ Page 258 of 430 Gaudiat II) Mostly of Environment, Final & Omite Charge, God Of India, 5. 0. 167 (5)

BRANCH OFF. 1 310, Dempo Towers, EDC Patto, Panaj-403 001, Goa Blate, India (0): (0832) 2437048 / 2437164 E-mail: sadetaremico@redifical.com + Website: www.sadetaremico.com + CIN - U45209MH1098PTC-110379 Calibration details of Equipment used for Sampling & Analysis

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

Sr No. Instrument Type		Certificate No.	Calibrated on	Calibration due date	
01	Vayubodhan (VSS-1)	EI/ET/306	20/02/2021	19/02/2022	

### UV Spectrophotometer

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

#### BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Flexi (SI NO.5000391)	14/06/2021	13/06/2022



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		STACK EM	ISSION REPORT					
Report No.	SEE/AR/01/2	022/0245	17/01/202	2	17/01/2022			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Address of Client	Mopa, Goa	Mopa, Goa						
Sampling Plan	SEEPL/LD/F	MT- 54	SEEPL/LD/FMT-	54	SEEPL/LD/FMT-	54		
Sample Collected By	SEEPL Repr	SEEPL Representative		Environmental condition of lab				
Date of Sampling	13/01/2022	13/01/2022		28.2	Humidity (%)	69		
Analysis Started On	13/01/2022		Analysis Completed On		17/01/2022			
		STACK	ETAILS					
Attached To		Hot Mix F	Plant - Linnhoff (160	(PH)				
Shape		Rectangular						
Dimension		1.0 x 0.90 Mtr						
Height from Ground Level		15.00 Mtr						
Temperature		71 °C						
Velocity of Flue Gases		12.49 m/	12.49 m/sec					
Volumetric Flue Gas Flow	Rate	40467.60	40467.60 m <sup>3</sup> /hour					
Volumetric Flue Gas Flow	Rate	35039.62	Nm³/hour					

#### POLLUTIONAL PARAMETERS

Sr. No.	Parameters	Result	Limits**	Unit	Method
01.	SO <sub>2</sub>	0.79	1.62	Kg/hour	IS 11255(Part II)
02.	Particulate Matter	88.76	150.00	mg/Nm <sup>3</sup>	IS 11255 (part I)

#### \*\*Consent No.12/2020-PCB/510173/00004024

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

Nandkumar Desai Reviewed by





HEAD OFF, & LAB 1 Plot No. A 95. Road No. 16, Khan Nagar Road, M J.D.C. Wright Industrial Area, Thane - 400 604. Maharashina Brate, India. (2) 191-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail: progradularenviro.com / peadekar568am Page 260 of 430

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

BRANCH OFF. : 310, Dempo Towens, EDC Patto, Panoji-403 001. Goa Stato, India (2): (0832) 2437048 / 2437164 E-mail:::eadekanenvira@medifmeli.com + Website:::www.sadokanenvira.com + CIN - L46200MH1998PTC-116379 Calibration details of Equipment used for Sampling & Analysis

Stack Kit (SR No.458 DTH-15)

Sr No.	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	EI/ET/306	20/02/2021	19/02/2022

### BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Flexi (SI NO.5000391)	14/06/2021	13/06/2022



B-306/307, Plot No. 61, Patel Estate, Reis Mages, Veren, Alto, Old Betim Road, Bardez, Porvoim, Panaji-Gos 403 101, Gos Bate, India. 9D / (0832) 2411322 / 2411329 € E-mail : startatigos/grediffmail.com Lati accredited by MeEF & CC Value up to 03.11.2023 € Certified by ISO 3001:2015 & ISO 46601 / 2018 STIVE WHITER STIVE WHE

		STACK EN	ISSION REPORT					
Report No.	SEE/AR/01/	SEE/AR/01/2022/0246			17/01/2022		17/01/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Address of Client	Mopa, Goa							
Sampling Plan	SEEPL/LD/	FMT-54 SEEPU/LD/FMT-54 SEEPU/LD/FM			LD/FMT-	54		
Sample Collected By	SEEPL Representative		Environmental condition of lab					
Date of Sampling	13/01/2022		Temperature)	°C)	28.2	Humidit	y (%)	69
Analysis Started On	13/01/2022		Analysis Completed On 17/01/2022			022		
		STACK	DETAILS					
Attached To		Hot Mix I	Mix Plant - Ammann (120 TPH)					
Shape Rd		Round	Round					
Dimension		0.78 Mtr	0.78 Mtr					
Height from Ground Level		15.00 Mt	tr					

#### \*\*Consent No.12/2020-PCB/510173/00004024

Parameters

Particulate Matter

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.

82 °C

Result

88.0

79.92

16.28 m/sec

28002.90 m<sup>3</sup>/hour

23493.92 Nm<sup>2</sup>/hour POLLUTIONAL PARAMETERS

Limits\*\*

1.62

150.00

Suemita Kapdoskar

Temperature

Sr. No.

01.

02

Velocity of Flue Gases

Volumetric Flue Gas Flow Rate

Volumetric Flue Gas Flow Rate

SO2

Analyzed by

NDESC

Nandkumar Desai Reviewed by

Unit

Kg/hour

mg/Nm<sup>3</sup>

Apendeep Sawant Authorized Signatory

Method

IS 11255(Part II)

IS 11255 (part I)

HEAD OFF, & LAB : Port No. A PE. Road No. 16, Kisan Nagar Road, M.LD C. Wagin Industrial Area, There - 400 604, Maharashira State, India (): (01-22) 2583-3321 / 2583-3322 / 2583-3323 / 2583-3324 + E-mail : pro@saddatammito.com / pastikar5@pm Page 262 of 430

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

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (2): (0032) 2437046 / 2437164 E-mail - sudekanenviro@excitimal.com \* Website - www.sudekanenviro.com • CIN - U45206M94996PTC-116279

### Calibration datails of Equipment used for Sampling & Analysis

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

Sr No,	Instrument Type	Certificate No.	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	EI/ET/306	20/02/2021	19/02/2022

### BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Flexi (SI NO.5000391)	14/06/2021	13/06/2022



B-309/367, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Bellim Rosel, Bardeg, Porvorim, Panap-Sna-403-101. Gos Bale, India. 🕼 : (0832) 2411322 / 2411323 + E-mail : starlabgoo@rediffmail.com Lab accending by MrEF & CC Valid up to 00.11.2023 & Centled by ISO 8001.2016 & ISO 45001 / 2018

SINE WHER SHELFE

Repo	rt No.	SEE/01/2022/20	3	Issue Date		15/0	1/2022
Name	e of Client	M/s. Megawide C C/o GMR Goa Ir					
Addre	ess of Client	Mopa, Goa					
Order / Reference As		As per dated 10	/01/2022	Environmental Condi	tion of Lab	Temp © C 28.1	Humidity % 66
Samp	aling point	WTP-Treated					11
Sam	ole details	Treated Water sa	ample	Date of collect	ction	10/0	1/2022
Samp	ble Collected by	SEEPL Represe	ntative	Sample Rece	aived On	10/0	1/2022
Analy	rsis Started On	10/01/2022		Analysis Con	npleted On	15/0	1/2022
Samp	ble Container	Glass bottle		Sample Quar	Sample Quantity		0 ml
Chen	nical Testing	1					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method		i
1.	pН	7.50		6.5 - 8.5	IS 3025 (Part 11)		
2.	Turbidity	0.64	NTU	1.00	IS 3025 (Pa	art 5)	
3.	Taste	Agreeable	*	Not Specified	APHA( 23	Edition ) 2160	B
4.	Color	<1.00	Hazen un	it Not Specified	APHA( 23rd	Edition ) 2120	) B
5.	Odour	Agreeable		Not Specified	APHA( 23%	Edition ) 2150	B
6.	Total Alkalinity	22.00	mg/lit	200.00	IS 3025 (Pa	art 23)	
7.	Total Dissolved Solids	48.00	mg/lit	500.00	IS 3025 (Pa	art 16)	
8.	Chlorides as CI	17.01	mg/iit	250.00	IS 3025 (Pa	art 32)	
9.	Sulphate as SOr	<5.00	mg/lit	200.00	IS 3025 (Pa	art 24)	
10.	Sulfides	<2.00	mg/iit	Not Specified	APHA( 23rd	Edition ) 4500	) S2F
11.	Total Hardness as CaCO	30.00	mg/lit	200.00	IS 3025 (Pa	art 21)	
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (P	art 34)	
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of	IS 3025 (Par	t 39) : 1991

HEAD OFF, & LAB | Plot No. A 95, Road No. 16, Kleen Hager Road, MJ D.C. Wegle Industrial Area, There - 400 604, Metamathta Stells, http://doi.org/ (2) (91-32) 2583 3322 / 2583 3323 / 2583 3323 / 2583 3324 + E-mail ; pre@aadekemmvio.com / paedeket/bibum Page 264 of 430

Gazetted By Messley of Environment, Forest & Climate Change, Govt CF tedia, S. O. 857 (E)

BRANCH OFF. : 310, Dumpo Towers, EDC Patto, Panagi-403.001. Gua State, India (C): (0832) 2437048 / 2407164 TC-116328 l i niar PHM - 1445

		a		Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	2	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

Repo	rt No.	SEE/01/2022/203		Issue I	Date	15/01/2022
Orde	r / Reference	As per dated	10/01/2022	Sampl	e Received On	10/01/2022
Analy	rsis Started On	10/01/2022		Analys	is Completed On	15/01/2022
Name	e of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited		
Chen	nical Testing			1		
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	6)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23"Edit	ion) 4500 F D
17,	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23rdEdit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified APHA( 23"Edit		ion) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23/ºEdit	ion) 5540-C
letal	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23.	Calcium as Ca	8.01	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.04	mg/iit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	⊲0.01	mg/iit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	2.43	mg/lit	Not Specified	APHA( 23=Edit	ion) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23"Edit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23"Edit	ion) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	)

1. Shreya Harmalkar, 1997 2. Anisha Parab Analyzed by

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Nandkumar Desai Reviewed By



				Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Report No.	SEE/01/2022/203	Issue Date	15/01/2022
Order / Reference	As per dated 10/01/2022	Sample Received On	10/01/2022
Analysis Started On	10/01/2022	Analysis Completed On	15/01/2022
Name of Client	M/s. Megawide Construction D C/o GMR Goa International Air		

**Microbiological Parameters** 

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

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

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NESS Nandkumar Desai Reviewed By

Apartoleep Sawant Authorized Signatory

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	49	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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SWELLING SRVE LIFE

Authorized Signatory

Repo	rt No.	SEE/01/2022/201	1	Issue Date	Issue Date - 15/01/2022		1/2022
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa International Airport							
Addre	ess of Client	Mopa, Goa					
Order / Reference As per dated 10/01/2022 Envir		Environmental Condi	tion of Lab	Temp ° C 28.1	Humidity % 66		
Samp	iing point	Boreweli 1					
Samp	le details	Ground Water		Date of collect	tion	10/0	1/2022
Samp	le Collected by	SEEPL Represer	ntative	Sample Rece	eived On	10/0	1/2022
Analy	sis Started On	10/01/2022		Analysis Con	npleted On	15/0	1/2022
Samp	le Container	Glass bottle		Sample Quar	ntity 5000 ml		lm C
Chen	nical Testing			1 2 2 2 2 2 2			
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method		1
t.	pН	6.83	÷.	6.5 - 8.5	IS 3025 (Pi	ert 11)	
2.	Turbidity	0.18	NTU	1.00	IS 3025 (Pa	art 5)	
3.	Taste	Agreeable		Not Specified	APHA( 23"	Edition ) 216	B
4.	Color	<1.00	Hazen uni	it Not Specified	APHA( 23	Edition ) 212	) B
5.	Odour	Agreeable		Not Specified	APHA( 23	Edition ) 215	) B
6.	Total Alkalinity	112.00	mg/lit	200.00	IS 3025 (P	art 23)	
7.	Total Dissolved Solids	133.00	mg/iit	500.00	IS 3025 (P	art 16)	
8.	Chlorides as CI	18,51	mg/lit	250.00	IS 3025 (P	art 32)	
9,	Sulphate as SOr	<5.00	mg/lit	200.00	IS 3025 (P	art 24)	
10.	Sulfides	<2.00	mg/iit	Not Specified	APHA( 23*	Edition ) 450	0 S7F
11.	Total Hardness as CaCO	3 100.00	mg/iit	200.00	IS 3025 (P	art 21)	
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (F	Part 34)	
13.	Mineral oil	<0.1	mg/lit.	0.50	Clause 6 o	f IS 3025 (Pa	t 39)

Reviewed By

HEAD OFF, & LAB | Phot No. A 46, Road No. 16, Kaan Nagor Road, MJ.D.C. Wegle Industrial Area, There - 400 604. Mahametrice State. ImPage 1 of 3 (2) - (01-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3324 - E-mail : pro@xadektermitic.com / peedetar5@pm Page 270 of 430 Gazetted by Minstey of Environment, Fonest & Climate Change, Gost Of India, B. O. 857 (E)

Analyzed by

BRANCH OFF. 1 210, Dempe Towers, EDC Patts, Panaj-403 001, Goe State, India (C) (0832) 2457048 / 2437164 E-mail: sadekammärstöredifmail.com \* We N COTT + CIN - UNE200AB-FEBR IPTC-116379 ai bibihi ini 1 m/

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo	urt No.	SEE/01/2022/201		Issue	Date	15/01/2022
Orde	r / Reference	As per dated	10/01/2022	Sampl	e Received On	10/01/2022
Analy	vsis Started On	10/01/2022		Analys	is Completed On	15/01/2022
Nam	e of Client		de Construct pa Internation	ion DMCC al Airport Limited		
Cher	nical Testing					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	8	Method
14,	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26	5)
15.	Nitrate as NO <sub>2</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34	4)
16.	Fluoride as F	<0.10	mg/R	Not Specified	APHA( 23ªEditi	on) 4500 F D
17,	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23#Editi	on) 5530-B,C
18.	Cyanide	<0.01	mg/iit	Not Specified	APHA( 23#Editi	on) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified APHA( 23rtEditte		on) 5540 – C
letal	Analysis					
20,	Aluminium as Al	<0.01	mg/fit	0.03 IS 3025 (Part 2)		
21,	Arsenic as As	<0.01	mg/lit	0.01 IS 3025 (Part 2)		
22.	Boron as B	<0.01	mg/鍵	0.50	IS 3025 (Part 2)	
23.	Calcium as Ca	17.63	mg/lit	Not Specified	APHA( 23"Edit	on) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)	
25.	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2)	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)	6
27.	Magnesium as Mg	13.60	mg/lit	Not Specified	APHA( 23rdEditi	on) 3500Mg B
28,	Chromium as Cr	0.01	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Editi	on) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)	)
30.	Zinc as Zn	0.04	mg/lit	5.00	IS 3025 (Part 2)	)
31.	Sodium as Na	15.00	mg/lit	Not Specified	APHA( 23ªEditi	on) 3120 B
32.	Potassium as K	6.00	mg/lit	Not Specified	APHA( 23ªEditi	on) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)	1

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By

in a s

Ananoeep Sawant Authorized Signatory

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id Certificate No.		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	2	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 26/08/20	
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021 26/08/202	
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022

Report No.	SEE/01/2022/201	Issue Date	15/01/2022
Order / Reference	As per dated 10/01/2022	Sample Received On	10/01/2022
Analysis Started On	10/01/2022	Analysis Completed On	15/01/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

#### Microbiological Parameters

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

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

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NDERGY Nandkumar Desai Reviewed By

Apaneeep Sawant Authorized Signatory

		and the second second		Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/08/202		
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021 26/08/2021		
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022	



B-306/307, Plot No. 61, Palal Estate, Reis Magos, Venim, Alto, Old Betim Road, Bantisz, Purvolnis, Panaj-Goa-403 101. Gea State, India. (C) : (0632) 34113227 2411323 • E-mail : startatigoal@realthreat.com Lab accredited by MoEF & CC Valid up to 03: 11.2023 • Certified by ISO 9001 2015 & ISO 45001 : 2018 STACLERINGER STRVE LET

		ANALYS	SIS REPORT	FOR	VATER SAMP	LE			
Repo	rt No.	SEE/01/2022/202	2		Issue Date 15/01/2022				
Name	e of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Addre	ess of Client	Mopa, Goa							
Orde	r / Reference	As per dated 10	01/2022	Environ	mental Conditi	on of Lab	Temp 28.1		Humidity % 66
Samp	bling point	Borewell No. 2							
Samp	ole details	Ground Water			Date of collect	lon		10/01/	2022
Samp	ole Collected by	SEEPL Represer	ntative		Sample Recei	ved On	2	10/01/	2022
Analy	vsis Started On	10/01/2022			Analysis Com	pleted On		15/01/	2022
Samp	ole Container	Glass bottle + P\	/C Can		Sample Quant	tity	1	1000 ml + 4000ml	
Chen	nical Testing			1		-			
Sr. No.	Parameter	Result	Unit	10.000	desirable hit (As per IS 10500)	Method			
1,	рH	6.92			6.5 - 8.5	IS 3025 (Pa	art 11)		
2.	Turbidity	0.20	NTU		1.00	IS 3025 (Pa	art 5)		
3.	Taste	Agreeable		N	ot Specified	APHA(23	Edition ) 2	2160 E	3
4,	Color	<1.00	Hazen uni	t N	ot Specified	APHA(23	Edition)	2120 E	3
5.	Odour	Agreeable	1	N	ot Specified	APHA(234	Edition ) 2	2150 E	3
б.	Total Alkalinity	100.00	mg/lit		200.00	IS 3025 (Pa	irt 23)		
7.	Total Dissolved Solids	135.00	rng/lit		500.00	IS 3025 (Pa	art 16)		
8,	Chlorides as Cl ·	27.52	mg/lit		250.00	IS 3025 (Pa	ert 32)		
9.	Sulphate as SO∉	<5.00	mg/lit		200.00	IS 3025 (Pa	ert 24)		
10.	Sulfides	<2.00	mg/lit	N	ot Specified	APHA( 23"Edition ) 4500 S <sup>2</sup> F		PF	
11.	Total Hardness as CaCO	96.00	mg/lit		200.00	IS 3025 (Pa	art 21)		
12.	Ammonia	<0.50	mg/lit		0.50	IS- 3025 (P	art 34)		
13,	Mineral oil	<0.1	mg/lit		0.50	Clause 6 of	IS 3025	(Part 3	(9)

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		a 87 m		Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	2	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 26/08/202	
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021 26/08/202	
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022

Repor	t No.	SEE/01/2022	/202	Issue Date		15/01/2022	
Order	/ Reference	As per dated	10/01/2022	Sample	Received On	10/01/2022	
Analy	sis Started On	10/01/2022		Analysi	s Completed On	15/01/2022	
Name	of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited			
Chem	nical 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	3)	
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 34	ł)	
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23rEditi	on) 4500 F D	
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23rdEditi	on) 5530-B,C	
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23rtEditi	on) 4500 CN-D	
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23rdEdit)	on) 5540-C	
letal /	Analysis	11					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)		
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)	2)	
22	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)		
23.	Calcium as Ca	16.83	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	on) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)	i.	
25.	Iron as Fe	0.06	mg/lit	1.00	IS 3025 (Part 2)		
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	i.	
27,	Magnesium as Mg	13.11	mg/lit	Not Specified	APHA( 23rEdit	ion ) 3500Mg B	
28.	Chromium as Cr	0.01	mg/lit	Not Specified	APHA( 23#Edit	ion ) 3120 B	
29,	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)	
30,	Zinc as Zn	0.01	mg/lit	5.00	IS 3025 (Part 2	)	
31.	Sodium as Na	15.00	mg/lit	Not Specified	APHA( 23dEdit	ion) 3120 B	
32.	Potassium as K	7.00	mg/lit	Not Specified	APHA( 23dEdit	ion) 3120 B	
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	)	

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/08/202	
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

Report No.	SEE/01/2022/202	Issue Date	15/01/2022
Order / Reference	As per dated 10/01/2022	Sample Received On	10/01/2022
Analysis Started On	10/01/2022	Analysis Completed On	15/01/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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	· · · · · · · · · · · · · · · · · · ·			Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	8	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 26/08/202	
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	RT FOR WATER SA	AMPLE				
Report No.	SEE/01/2022/196	SEE/01/2022/196 Issue Date					
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa						
Address of Client	Mopa, Goa	Mopa, Goa					
Order / Reference	As per dated 10/01/2022	Equimonontal Co	Environmental Condition of Lab		Humidity %		
Cruci / Neidrende	ha per union nuo nevez	Environmental Go	Audition of Lab.	28.1	66		
Sampling point	R.R. Canteen						
Sample details	Drinking Water	Date of co	Date of collection		/2022		
Sample Collected by	SEEPL Representative	Sample R	teceived On	10/01	/2022		
Analysis Started On	10/01/2022	22 Analysis Completed On 14/		14/01	/2022		
Sample Container	Glass bottle	1000	mi				

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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F. : 310, Dempo Towers, EDC Patte, Panag-403-001, Goa State, Inde (7): (0832) 3437048 / 2437164 E-mail: audiekarenviro@rediffmail.com \* Website: www.sadiebarenviro.com \* CN - 1452094/e11988/TC-116378

<u>a</u>		000.22 00		Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	26/08/202
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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印化山州市 SERVENCE

	ANALYSIS REPORT	RT FOR V	WATER SAMPLE		
Report No.	SEE/01/2022/200		Issue Date	14	4/01/2022
Name of Client	M/s. Megawide Construction C/o GMR Goa International		Limited		
Address of Client	Mopa, Goa				
Order / Reference	As per dated 10/01/2022	Equiron	mental Condition of Lab	Temp <sup>o</sup>	C Humidity %
Challer / religionud	MS per uateur Turv Inzuzz	CHARGE	Riteriter Constituti di Leo	28.1	66
Sampling point	K.M.V Colony				
Sample details	Drinking Water		Date of collection	1(	0/01/2022
Sample Collected by	SEEPL Representative		Sample Received On	1(	0/01/2022
Analysis Started On	10/01/2022		Analysis Completed On		4/01/2022
Sample Container	Glass bottle		Sample Quantity	10	000 ml

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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3		23.0		Calibratio	n Details
Sr. No,	Equipment Name	Equipment Id	Certificate No.	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	26/08/20%
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	RT FOR W	ATER SAMPLE				
Report No.	SEE/01/2022/199	1	ssue Date		14/01/2022		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		mited				
Address of Client	Mopa, Goa						
Order / Reference	As per dated 10/01/2022	Environn	uranmental Condition of Lab		0 C	Humidity %	
order / Noterence	ina per sidieu Toro nevez	- CHYORODI	reliter condition of Leb.	28.	1	66	
Sampling point	V.N.C Colony						
Sample details	Drinking Water	1	Date of collection		10/01/	2022	
Sample Collected by	SEEPL Representative		Sample Received On 10/01/2022		2022		
Analysis Started On	10/01/2022	10/01/2022 Analysis Completed Or		Analysis Completed On 14		4/01/2022	
Sample Container	Glass bottle	4	Sample Quantity		1000 r	nl	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Cabalities by device y or Environment, roman a Central Change, Cost of House, S. O. 107 (51)

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## Equipment Calibration Details

		2 0 22		Calibration Details		
Sr. No.		Certificate No.	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	26/08/20.	
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	RT FOR WATER SAMPLE			
Report No.	SEE/01/2022/197	Issue Date	1	14/01/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 10/01/2022	Environmental Condition of Lab	Temp		Humidity %
Gradin Holerence	Ha per sedeu Two Trevez	contraction contraction cap	28.1		66
Sampling point	L.S.C Colony				
Sample details	Drinking Water	Date of collection	9	10/01/2022	
Sample Collected by	SEEPL Representative	Sample Received On	3	10/01/2022	
Analysis Started On	10/01/2022	Analysis Completed On	14/01/		2022
Sample Container	Glass bottle	Sample Quantity	1	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( 23rdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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## Equipment Calibration Details

a		1.		Calibration Details		
Sr. Equipment Name Equipment Cer	Certificate No.	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	26/08/202	
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 REPO	RT FO	R WATER SAMPLE			
Report No.	SEE/01/2022/198	SEE/01/2022/198		14/01/2022		2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	to per dated 10/01/2022		Environmental Condition of Lab		°.C	Humidity %
Under / rveierende	As per dated 10/01/2022	Elitit	witchinishilai condition of cab		1	66
Sampling point	P.T.B					
Sample details	Drinking Water		Date of collection	10/01/2022		2022
Sample Collected by	SEEPL Representative		Sample Received On	3	10/01/2022	
Analysis Started On	10/01/2022	10/01/2022		14/01		2022
Sample Container	Glass bottle	Glass bottle		3	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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## Equipment Calibration Details

	Sr. Equipment Name Equipment Id Certific	20 10 10		Calibration Details		
Sr. No.		Certificate No.	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	26/08/20/	
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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SPACE LERITORY

SEVE UTE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/01/2022/192		Issue Date	14/01/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As not dated 10/01/2022	Environ	Environmental Condition of Lab		Humidity %
	As per dated 10/01/2022	Enviro	nmental Condition of Lab	28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10	
Sampling point	STP				
Sample details	Inlet Water		Date of collection	10/01/2022	
Sample Collected by	SEEPL Representative		Sample Received On	10/01/2022	
Analysis Started On	10/01/2022	10/01/2022		14/01/2022	2
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	рH	7.40		APHA( 23redition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	840.00	mg/lit	APHA( 23=Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	311.08	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	291.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	15.00	mg/lit	APHA( 23=Edition ) 5520-0 &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.

Marcart Shweta Sawant

Analyzed By

NOGE Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

HEAD OFF. & LAB : Ptol No. A-US, Road No. 16, Khain Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 654. Maturashtra State, India. 

Gazetted By Messey of Environment, Forest & Climate Change, Gov! Of India, S. O. 857 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Pattu, Panaji-403 001, Gua State, India (2): (0832) 2437048 / 2437164 E-mail: sadutarenvirp@pudffmail.com + Walkike: www.sadutarenvirti.com + CIN - U452098441996PTC-118379

## Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Name Equipment Id	Certificate No.	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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8-306/307, Plot No. 61, Patel Estate, Reis Magoe, Verem, Alto, Otil Detire Road, Backer, Porveim, Panai-Goa-403 101. Goa Glate, India. 10 ... (0832) 2411322 / 2411323 · E-mail : startal-goa@eadifinal.com Lith accredited by MeEF & CC Valid up to 03.11.2023 \* Centified by ISO 9901:2015 & ISO 46001 : 2018

SIME WHER SHAFLINE

ANALYSIS REPO	ORT FOR	R WATER SAMPLE				
SEE01/2022/193		Issue Date		14/01/2022		
M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Mopa, Goa						
L				p ° C	Humidity %	
As per dated 10/01/2022	Envir	onmental Condition of Lab	28.1		66	
SEEPL/LD/FMT- 54	Sampl	ing Procedure No.	SEEP	SEEPL/QSP-10		
STP						
Outlet Water		Date of collection	10/01/2022		22	
SEEPL Representative		Sample Received On		10/01/2022		
10/01/2022	10/01/2022		14/01/2022		22	
Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml			
	SEE01/2022/193         M/s. Megawide Constructio         C/o GMR Goa International         Mopa, Goa         As per dated 10/01/2022         SEEPL/LD/FMT- 54         STP         Outlet Water         SEEPL Representative         10/01/2022	SEE01/2022/193         M/s. Megawide Construction DMCC         C/o GMR Goa International Airport         Mopa, Goa         As per dated 10/01/2022         SEEPL/LD/FMT-54         STP         Outlet Water         SEEPL Representative         10/01/2022	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited         Mopa, Goa         As per dated 10/01/2022       Environmental Condition of Lab         SEEPL/LD/FMT- 54       Sampling Procedure No.         STP       Outlet Water       Date of collection         SEEPL Representative       Sample Received On         10/01/2022       Analysis Completed On	SEE01/2022/193       Issue Date       14         M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited       14         Mopa, Goa       Mopa, Goa       16         As per dated 10/01/2022       Environmental Condition of Lab       Temp         SEEPL/LD/FMT-54       Sampling Procedure No.       SEEP         STP       Outlet Water       Date of collection       10         SEEPL Representative       Sample Received On       10         10/01/2022       Analysis Completed On       14	SEE01/2022/193       Issue Date       14/01/20         M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited       Image: Construction DMCC         Mopa, Goa       Mopa, Goa       Image: Construction of Lab       Image: Construction of Lab         As per dated 10/01/2022       Environmental Condition of Lab       Image: Construction of Lab       Image: Construction of Lab         SEEPL/LD/FMT-54       Sampling Procedure No.       SEEPL/QSP         STP       Outlet Water       Date of collection       10/01/20         SEEPL Representative       Sample Received On       10/01/20         10/01/2022       Analysis Completed On       14/01/20	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	рH	6.40		5.5 - 9.0	APHA( 23rd Edition ) 4500 H+-B
2	Chemical Oxygen Demand (COD)	136.00	mg/lit	250.00	APHA( 23 <sup>-1</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	22.36	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	64.00	mg/lit	100.00	APHA( 23 <sup>st</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	6.00	mg/lit	10.00	APHA( 23 <sup>st</sup> Edition ) 5520-O &G

Note: Test results related only to the sample tested.

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0/01000 Shweta Sawant

Analyzed By

NORSA Nandkumar Desai Reviewed By

Analideep Sawant Authorized Signatory

HEAD OFF. & LAB : Plat No. A-85. Road No. 18, Kivan Nagar Road, M1.D.C. Wagle Industrial Area. Thank - 400 KH. Manarastera State, India. Page 294 of 430

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

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaj-403 001, Goa State, India (C): (0832) 2437048 / 2437164 E-mail: sadekarenviro@midfmail.com • Websile : www.sadekarenvirs.com • CIN - U45200MH1998PTC-118379

				Calibrat	ion Details
Sr. Equipment Name Equipment No. Id	Equipment Id	Certificate No.	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

### Equipment Calibration Details



8-300/307, Plot No. 01, Patel Estate. Rela Magos, Verem, Alto, Cird Bellin Road, Bardoz, Porvinin, Parag-Gon-403 101. Gna State, India. 70 / (0832) 2411322 / 2411323 \* E-mail : startabgoa@mddfmail.com Lab accredited by MoEF & CC Velid up to 03.11 2023 \* Certified by ISO 0001:2015 & ISO 45001 / 2018

SPIVE CONTROL STAFFUL

	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/01/2022/194		Issue Date	14/01/20	22
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
Order / Reference	Ac per dated 10/01/2022			Temp <sup>0</sup> C	Humidity %
Order / Neterence	As per dated 10/01/2022 Enviro		mental Condition of Lab	28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP	-10
Sampling point	STP (KMV)				
Sample details	Inlet Water		Date of collection	10/01/2022	
Sample Collected by	SEEPL Representative		Sample Received On	10/01/2022	
Analysis Started On	10/01/2022		Analysis Completed On	14/01/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

### **Chemical Parameters**

Sr. No.	Parameters	Results	Unit	Method	
1.	pН	6.24		APHA( 23"Edition ) 4500 H+-B	
2.	Chemical Oxygen Demand (COD)	436.00	mg/lit	APHA( 23rdEdition ) 5220-B	
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	155.40	mg/lit	IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	124.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 2540-D	
5.	Oil & Grease (O & G)	10.00	mg/lit	APHA( 23#Edition ) 5520-0 &G	

Note: Test results related only to the sample tested.

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Mugdha Gawade

Analyzed By

NDESA Nandkumar Desai Reviewed By

Anandeep Sawant Authorized Signatory

HEAD OFF. & LAB : Plot No. A-30, Road No. 10, Road No. 10, Road No. 20, Road Multi-Coverage Industrial Area, There - 400 604, Maharashtra State, India.

Page 296 of 430

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				Calibrat	ion Details
Sr. Equipment Name Equipm No. Id	Equipment Id	Certificate No.	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

## Equipment Calibration Details



B-306/307: Plut No. 61, Palal Estata, Reis Magos, Vienn, Alto, Old Betim Road, Bardez, Porvorini, Panaj-Gua-403 101. Goo Stele, India. (D : (0832) 2411322 / 2411323 \* E-mail : startsbgsagtradifinat.com Lab accredited by MoEF & CC Wild up to 03.11.2923 \* Certified by ISO 9001:2015 & ISO 45001 - 2018

	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/01/2022/195		Issue Date	14/01/20	22
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	An end dated 10/01/2022	Environmental Condition of Lab		Temp <sup>0</sup> C	Humidity %
Order / Reference As per dated 10/01/2022		Enviror	imental condition of Lab	28.1	66
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10	
Sampling point	STP (KMV)				
Sample details	Outlet Water		Date of collection	10/01/20	22
Sample Collected by	SEEPL Representative		Sample Received On	10/01/2022	
Analysis Started On	10/01/2022		Analysis Completed On	14/01/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	6.93	-	5.5 - 9.0	APHA( 234Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/iit	50.00	APHA( 23 <sup>rd</sup> Edition ) 5220-B
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	5.20	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	16.00	mg/lit	20.00	APHA( 23 <sup>rd</sup> Edition ) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	10.00	APHA( 23rdEdition ) 5520-O &G
6.	Ammonia	2.24	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH38 C
7.	Total Nitrogen ( as N)	8.75	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### **Microbiological Parameters**

for 24 hrs. Test results related only to the sar		Index/100ml	100	APHA (23ªEdition ) 9221-E
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Ugdha Gawade Goura	its used in mo	NORS OF	alysis is be	

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ERANCH OFF. 1 310, Dempo Towers, EDC Patto, Paraji-403 001, Goa State, India (2) (0832) 2437048 / 2437164 E-mail: audekummitro@redifinat.com \* Websile: www.sadekammitro.com + City - Ukt209MH1998P1C-118379

				Calibratio	n Details
Sr. No.	Equipment Name	Certificate No.	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	26/08/202
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

## Equipment Calibration Details



B-306/307, Plot No. 61, Patel Exitele, Reis Magos, Verem, Alto, Old Betim Road, Bardoz, Parvonin, Panaji-Goa-403 101. Goa State, India. (D .: (0832) 2411322 / 2411323 \* E-mail : startabgoa@rodffmail.com Lab accredited by MoEF & CC Valid up to 03 11 2023 + Certified by ISO 0001:2015 & ISO 45001 :2018

空候山和明 SPACIFIC

		AMBI	ENT A	IR QUA	LITY MONITORIN	G RE	POR	T		
Rep	ort Date	03/03/20	22							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	iress of Client	Mopa, Goa	Mopa, Goa							
Sam	pling Plan	SEEPL/LD	/FMT-	54 3	Sampling Procedure	No.	S	EEPL/QSP-10	0	
Sarr	ple Collected	By SEEPL Rep	present	ative						
Mor	nth of Sampling	g February	2022							
				AMBIE	NT AIR LOCATION				_	
Loc	ation of ambie	nt air station	Mopa	Bounda	ry (Goa State) (G-A1)	_				
Ave	rage Ambient	Temperature (°C)	30.9	Averag	ge Humidíty (%)	7	0	Latitude	N 15º45'	51,1"
Ave	rage Wind Spe	ed (km/hr)	1.8	Average Wind direction (Deg) 232 Longitude E 73º56'32.4"						32.4"
Inst	ruments Used		FPS(A	VPM-550	), RDS(APM-460) &G	PS (AP	M - 4	411)		
Sr.	Date of	Report No.			1	PARAM	IETI	ERS		
No	Sampling	Report No.	-	PM <sub>18</sub>	PM2.5	SO	2	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2022/	0106	77.37	44.95	5.8	¥	8.48	0.06	125.10
2	07/02/2022	SEE/AR/02/2022/	0203	43.90	32.52	3.3	3	<6.00	0.03	77.21
3.	10/02/2022	SEE/AR/02/2022/	0312	85.31	27.20	5.1	5	10.38	0.08	160.33
4.	14/02/2022	SEE/AR/02/2022/	0371	89.18	22.12	4.0	B	7.93	0.11	113.9
5.	17/02/2022	SEE/AR/02/2022/	0501	31.47	14.01	<3.0	0	<6.00	0.05	45,73
6.	21/02/2022	SEE/AR/02/2022/	0638	62.39	19.17	4,1	0	9.68	0.07	82.70
7,	24/02/2022	SEE/AR/02/2022/	0716	57.18	18.75	4,3	5	8.96	0.03	76.76
8.	28/02/2022	ner and a second se		81.38	26.28	4,1	8	13.97	0.08	113.3
	NAA	QS Limits*		100	60	80	<u> [</u>	80	4	
		Units		$\mu g/m^3$	µg/m <sup>3</sup>	µg/i	n <sup>3</sup>	µg/m³	mg/m <sup>1</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part		1S 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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- : Test methods of analyzed parameters are back side of analysis report.

1)Dipali Sawant 2)Aditya Naik Analyzed by

Deso Nandkumar Desai Reviewed by



deep Sawant Aga Authorized Signatory

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaj-403 001, Goa State, India (2) : (0832) 2437048 / 2437164

1

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

### UV Spectrophotometer

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

### Fine Particulate Sampler (SR NO. 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

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	FP5 - APM 550 MINI	LES-CCL/FF/RF/SC/3772	24/09/2021	23/09/2022	

#### CO METER

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



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SINE WRITER SHARE LIFE

		AMB	ENT A	IR QUA	LITY MONITORI	NG	REPO	RT		
Rep	ort Date	03/03/2	022							
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited										
Add	ress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	D/FM	ľ-54	Sampling Procedu	re No		SEEPL/QSI	P-10	
Sam	ple Collected	By SEEPL R	eprese	ntative						
Mot	th of Samplin	g Februar	y 2022							
				AMBIE	NT AIR LOCATION	1				
Loc	ation of ambie	nt air station	Shen	echeadv:	an Boundary(Goa St	ate) (	G-A2)			
Ave	rage Ambient	Temperature (°C)	31.2	Averag	e Humidity (%)	)	71	Latitude	N 15º42'0	6.1"
Ave	rage Wind Spe	ed (km/hr)	1.6	Averag	e Wind direction (I	leg)	254	Longitude	E 73º49'2	1.5*
Inst	ruments Used		FPS(	APM-550	), RDS(APM-460) &	GPS (	APM -	411)		
Sr.	Date of	Report No.		PARAMETERS						
No	Sampling	Nepoli No.		PM <sub>10</sub>	PM2.5	S	01	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2022,	0107	46.84	24.37	5.	28	10.79	0.05	72,83
2.	07/02/2022	SEE/AR/02/2022,	/0204	37.90	26.20	<3.00		7.45	0.06	64.76
3,	10/02/2022	SEE/AR/02/2022	/0313	65,76	22.75	4.36		<6.00	0.03	89,54
4.	14/02/2022	SEE/AR/02/2022	/0372	80.23	34.10	б.	62	9.14	0.08	116.7
5,	17/02/2022	SEE/AR/02/2022,	0502	27.07	8.57	<3	.00	<6.00	0.06	35.75
6.	21/02/2022	SEE/AR/02/2022,	/0639	37.97	18.71	3.	39	9.31	0.03	58.80
7.	24/02/2022	SEE/AR/02/2022/0717		62.50	12.27	3.	99	10.35	0.07	78.61
8,	28/02/2022	2022 SEE/AR/02/2022/0755		68.19	22.50	<3	.00	11.60	0.06	93.17
	NAA	QS Limits*		100	60	8	0	80	4	
		Units		$\mu g/m^3$	µg/m <sup>3</sup>		/m <sup>3</sup>	$\mu g/m^3$	mg/m <sup>3</sup>	µg/m
1	)	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1.100.00	5182 (102)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 518 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.

NDesal 1)Dipali Sawant 2)Aditya Naik Nandkumar Desai Anongeep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB : Plot No. A 65, Road No. 16, Kinan Nagar Road, M.I.D.C. Wagle industrial Anal, Thank- 400 604, Maharashtro State, India. 7 (01-27) 2503 3321 / 2503 3322 / 2503 3322 / 2503 3327 / 2503 3324 · E mail: progradeharement.com / paatokarfiggen Page 302 of 430

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Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 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)

5r No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	FPS - APM 550	EI/FF/624	19/02/2021	18/02/2022	

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

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

CO METER

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



B-306/307, Plot No. 81, Patel Estate, Rein Magoe, Veren, Alts, Old Betim Road, Bardez, Parvoren, Panaji-Goa-403 101. Gen State, India. 10 .: (0832) 2411322 / 2411323 \* E-muil : atartutgess@rediffmail.com Lab accredited by MrEF & CC Valid up to 03.11.2023 # Certified by ISO 9001-2015 & ISO 45801-2018

SPINE LUPITER SPACINE

		AME	IENT	AIR QUA	LITY MONITORI	NG	REPO	RT		
Rep	ort Date	03/03/	2022							
Nan	ne of Client				tion DMCC nal Airport Limited					
Add	ress of Client	Mopa,	ioa		9					
San	ipling Plan	SEEPL,	LD/FM	T- 54	Sampling Procedu	re No		SEEPL/QS	P-10	
San	ple Collected	By SEEPL	Repres	entative						
Mor	th of Samplin	g Februa	ry 2023	2						
				AMBIE	NT AIR LOCATION					
Loc	ation of ambie	nt air station	Nag	zar(Goa St	tate) (G-A3)					
_	and the second se	Temperature (°C)	30.7		ge Humidity (%)	73		Latitude	N 15º45'37.3"	
	rage Wind Spe		1.6	_	ge Wind direction (I		231	Longitude	E 73º53'1	4.22"
Inst	ruments Used		FPS	(APM-550	), RDS(APM-460) &					
Sr.	Sr. Date of Report No.			PARAMETERS						
No	Sampling	report to	2	PM <sub>10</sub>	PM <sub>2.5</sub>	S	Or	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2023	2/0108	37.24	27.07	4.	43	10.63	0.03	65.19
2.	07/02/2022	SEE/AR/02/2023	2/0205	54.52	27.82	<3.00		<6.00	0,06	83.41
3.	10/02/2022	SEE/AR/02/2023	2/0314	55.52	29,77	5.10		6.53	0.05	86.45
4,	14/02/2022	SEE/AR/02/202	2/0373	64.60	35.47	3,	99	10.93	0.08	101.3
5,	17/02/2022	SEE/AR/02/202	2/0503	28,38	18.75	<3	.00	<6.00	0.07	47.93
6,	21/02/2022	SEE/AR/02/2023	2/0640	46.15	12.64	5.	55	11.34	0.05	61.48
7.	24/02/2022	SEE/AR/02/202	2/0718	44.31	32.35	5.	02	10.00	0.06	79.43
8,	28/02/2022	022 SEE/AR/02/2022/0756		42.81	30.19 ·	5.13		10.15	0.03	74.18
	NAA	QS Limits*		100	60	8	0	80	4	
2		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	μg	/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
	)	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1 2 2 2 4	5182 102)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 518 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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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- CEIS 121(SR ND.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

### Fine Particulate Sampler (5R NO. 983-DTI-2020)

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

#### CO METER

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

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SHVE LURITER SPACIFIC

		AMB	ENT A	IR QUA	LITY MONITORIN	NG R	EPO	RT			
Rep	ort Date	03/03/3	2022								
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited								
Add	lress of Client	Mopa, G	Mopa, Goa								
Şan	pling Plan	SEEPL/	.D/FM	ľ-54	Sampling Procedur	e No.		SEEPL/QS	P-10		
San	ple Collected I	By SEEPL F	eprese	ntative							
Mor	th of Samplin	g Februar	y 2022								
				AMBIE	NT AIR LOCATION						
Loc	ation of ambie	nt air station	Purv	a Casarva	rnem (Goa State)(G-	A4)					
Ave	rage Ambient	Temperature (°C)	31.3	Averag	e Humidity (%)		73	Latitude	N 15º41'4	1.9"	
Average Wind Speed (km/hr) 2.1 Average Wind direction (Deg) 210				210	Longitude E 73°50'16.6"						
Instruments Used FPS(			S(APM-550), RDS(APM-460) &GPS (APM - 411)								
Sr.	Date of	Deport No.		1		PAR/	AMET	FERS			
No	Sampling	Report No.		PM10	PM2.5	S	02	NOx	CO	SPM	
1.	03/02/2022	SEE/AR/02/2022	/0109	75.84	34.89	4.	76	8.28	0.05	114.38	
2,	07/02/2022	SEE/AR/02/2022	/0206	68.94	27.86	<3	.00	<6.00	0.06	98.15	
З.	10/02/2022	SEE/AR/02/2022	/0315	87.52	40.29	3.	97	6.43	0.07	145.60	
4,	14/02/2022	SEE/AR/02/2022	/0374	85,75	28.40	3,	63	10.48	0.09	126.6	
5.	17/02/2022	SEE/AR/02/2022	/0504	54.56	16.55	<3	00	<6.00	0.05	72.41	
6,	21/02/2022	SEE/AR/02/2022	/0641	76.09	28.11	5.	58	7.23	0.06	105.20	
7.	24/02/2022	SEE/AR/02/2022	/0719	71.67	36.30	<3	.00	9.28	0.07	113.6	
8,	28/02/2022	SEE/AR/02/2022	/0757	74.68	35.93	<3	00.	10.42	0.05	111.69	
	NAA	QS Limits*		100	60	8	0	80	4	*:	
1		Units		µg/ m³	µg/m <sup>3</sup>	148/	/m³	µg/m³	mg/m <sup>3</sup>	µg/m	
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		182 1 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV	

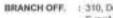
### \*NATIONAL AMBIENT AIR STANDARDS (2009)

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BRANCH OFF. 1 310, Dempo Towers, EDC Parto, Panagi-403 001, Goa State, India 🕖 (0632) 2437048 / 2437164.

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1456-DTD-2009)	LES-CCL/FF/MF/SC/1157	15/07/2021	14/07/2022

### **UV** Spectrophotometer

Sr No. Equipment Name		Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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		AMB	IENT A	IR QUA	LITY MONITORIN	IG RE	POI	RT		
Rep	ort Date	03/03/2	022							
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	lress of Client	Mopa, G	Mopa, Goa							
Sam	pling Plan	SEEPL/I	D/FMT	- 54	Sampling Procedure	2 No.	1	SEEPL/QSP-1	0	
Sam	ple Collected	By SEEPL R	epresei	ntative						
Mor	th of Samplin	g Februar	y 2022							
				AMBIE	NT AIR LOCATION		_			
Loc	ation of ambie	nt air station	Khajn	e Amere	Porscodem (Goa Stat	te) (G-	A5)			
Ave	rage Ambient	Temperature (°C)	30.2	Averag	ge Humidity (%) .	7	2	Latitude	N 15º40'3	8.0"
Average Wind Speed (km/hr) 1.9 A			Averag	rage Wind direction (Deg) 253 Longitude E 73º46'21.2"				1.2*		
Inst	ruments Used		FPS(A	APM-550	), RDS(APM-460) &G	PS (AF	M -	411)		
Sr.	Date of	Report No.				PARAMETERS				
No	Sampling	Report No.		PM10	PM2.5	SC	7	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2022/	0110	44.26	22.70	4.3	5	7.76	0.03	68.09
2.	07/02/2022	SEE/AR/02/2022/	0207	70.05	21.58	<3,0	00	<6.00	0.05	92.11
3.	10/02/2022	SEE/AR/02/2022/	0316	70.74	38.30	3.2	6	6.98	0.06	110.4
4.	14/02/2022	SEE/AR/02/2022/	0375	84.36	21.08	8.1	1	9.09	0.10	118.0
5.	17/02/2022	SEE/AR/02/2022/	0505	30.46	17.34	<3.	00	<6.00	0.05	48.00
б.	21/02/2022	SEE/AR/02/2022/	0642	43.38	18.09	4.9	3	7,71	0.03	63.12
7.	24/02/2022	SEE/AR/02/2022,	0720	55.75	15.97	3.8	19	<6.00	0.06	72.70
8.	28/02/2022	SEE/AR/02/2022/	0758	34.54	17.84	<3.	00	10.14	0.05	53.20
	NAA	QS Limits*		100	60	8	0	80	4	-
1		Units		$\mu g/m^3$	µg/m³	µg/	ma	µg/m³	mg/m <sup>1</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5 (Part		IS 5182 (Part 06)	IS 5182( Part 10)	IS 518 Part IV

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

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NDEJOU 1)Dipali Sawant 2)Aditya Naik Nandkumar Desai Anandeep Sawani Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB 1 Plot No. A -95, Road No. 16, Kean Nagar Road, M.I.D. C. Wagle industrial Area, Thure - 400 604, Maharautho State, India. (2) (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail: profileadokaronim.com / paidokar5@gmaPage 308 of 430 Datetled by Ministry of Emotorment, Forest & Climate Change, Goxt Of India, S. O. 167 (5)

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RD5- 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/34D1	15/07/2021	14/07/2022	

#### CO METER

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

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		AMB	ENT A	IR QUAL	ITY MONITORIN	G REPO	RT		
Rep	ort Date	03/03/2	2022						
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Add	dress of Client Mopa, Goa								
Sam	pling Plan	SEEPL/I	.D/FM	r- 54	Sampling Procedu	ure No.	SEEPL/QSI	2-10	
Sam	ple Collected	By SEEPL F	eprese	ntative					
Mot	ith of Samplin	g Februar	y 2022						
			_	AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Rajvi	l Wada Tor	rxem (Goa State)(G-/	A6)			
Ave	rage Ambient'	Temperature (°C)	31.1	Average	Humidity (%)	73	Latitude	N 15º48'	10.0*
Average Wind Speed (km/hr) 1.7			1.7	Average	Average Wind direction (Deg) 265 Longitude E 73º52'				50.2"
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) & GF	PS (APM -	- 411)		
Sr.	Date of	Report No.		PARAMETERS					
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2022,	/0111	62.33	31.44	5.14	10.64	0.05	95.43
2.	07/02/2022	SEE/AR/02/2022	/0208	78.06	19.79	<3.00	<6.00	0.07	98.52
3.	10/02/2022	SEE/AR/02/2022	/0317	85.83	24.04	3.52	12.31	0.06	123.9
4.	14/02/2022	SEE/AR/02/2022	/0376	80.40	18.30	3.83	12.42	0.07	100.1
5,	17/02/2022	SEE/AR/02/2022	/0506	42.05	10.98	<3.00	<6.00	0.03	53.59
6.	21/02/2022	SEE/AR/02/2022	/0643	70.88	17.17	6.86	8.95	0.05	88,82
7,	24/02/2022	SEE/AR/02/2022	/0721	63.89	20,46	4.52	11.66	0.06	86.48
8,	28/02/2022	SEE/AR/02/2022	/0759	39,83	11.39	<3.00	13.38	0.08	52.53
	NAA	QS Limits*		100	60	80	80	4	-
1		Units		$\mu g/m^3$	µg/m <sup>3</sup>	$\mu g/m^3$	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

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

1)Dipali Sawant 2)Aditya Naik Analyzed by

NDESC Nandkumar Desai Reviewed by



leep Sawant

Authorized Signatory

HEAD OFF, & LAB : Ptot No. A -95. Road No. 16, Kosen Nurger Road, M.LD.C. Wagle Industrial Area, There - 400 604. Mahamathire State, India (2): (91-22) 2583 3321 ( 2583 3322 ) 2583 3323 / 2583 3324 • E-mail: pro@valekarminic.com / psedekar5@gmuPage 310 of 430 Gazetted By Ministry of Environment, Forest & Climate Change, Gint Of India, 5, 0, 857 (E)

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Respirable Dust Sampler's with Gaseous Sampling

2

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

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

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

CO METER

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



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SHUE WHITEH

SPINE UNK

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	DRT		
Rep	ort Date	03/03/2	022						
Nan	ne of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Add	ress of Client	Mopa, G	se				- Vi-		
Sam	pling Plan	SEEPL/1	SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL/QSI			P-10			
Sam	ple Collected I	By SEEPL R	eprese	ntative					
Mor	th of Sampling	g Februar	2022					_	
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Satar	da(Mahara	ashtra State)(M-A1)	б.,			
Ave	rage Ambient	Temperature (°C)	31.6	Average	Humidity (%)	70	Latitude	N15º43'0	1.3"
Average Wind Speed (km/hr) 1.7			Average	verage Wind direction (Deg) 252 Longitude E7		E 73º46'0	0.2"		
Inst	ruments Used		FPS(/	APM-550),	RDS(APM-460) &G	PS (APM	- 411)		
Sr.	Date of	Report No.				PARAMI	TERS		_
No	Sampling	Ruport No.	_	PM <sub>10</sub>	PM <sub>15</sub>	SO1	NOx	CO	SPM
1.	03/02/2022	SEE/AR/02/2022/	0112	49.67	17.17 .	4.08	9.16	0.07	67.40
2,	07/02/2022	SEE/AR/02/2022/	0209	56.50	21.79	<3.00	8.50	0.06	78.57
3.	10/02/2022	SEE/AR/02/2022/	0318	57.12	23.58	5.47	6.73	0.08	81.48
4.	14/02/2022	SEE/AR/02/2022/	0377	77.22	22.21	5,48	8.04	0.03	100.44
5,	17/02/2022	SEE/AR/02/2022/	0507	24.87	7.32	<3.00	<6.00	0.05	32.35
6.	21/02/2022	SEE/AR/02/2022/	0644	37.38	15.09	3.84	9.18	0.07	52.61
7.	24/02/2022	SEE/AR/02/2022/	0722	51.42	14.10	3.15	7.77	0.03	66.84
8.	28/02/2022	SEE/AR/02/2022/	0760	54.85	19.13	<3.00	11.73	0.06	75.30
	NAA	QS Limits*		100	60	80	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	ji ji	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

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

1)Dipali Sawant 2)Aditya Naik Analyzed by

NDELO Nandkumar Desai Reviewed by



Anandeep Sawant Authorized Signatory

HEAD OFF. & LAB : Plut No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Ann. Thore - 400 604. Maturashira Stein, India. (11-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3323 / 2563 3324 • E-mail: progradulationermite.com / paulokarisity.pr Page 312 of 430

Gazettad By Mivistry of Environment, Poyent & Clenate Change, Govi (3) India, E. D. RD7 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goe State, India (2) : (0832) 2437048 / 2437184

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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B-305/307, Piot No. 51, Panel Estate, Reix Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panel-Goa-403 101. Goa State, India. 10 :: (0832) 2411322 / 2411323 \* E-mail: startabgoa@exditimat.com Lab accredited by MoEP & CC Valid up to 03, 11, 2023 \* Centified by 350 9001 2015 & ISO 45001, 2018 SHVE LUMER SHVE UPE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REPO	DRT			
Rep	ort Date	03/03/2	022							
Nan	ne of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited									
Add	lress of Client	Mopa, G	Mopa, Goa							
Sam	pling Plan	SEEPL/1	D/FM	Γ-54	Sampling Proced	lure No.	SEEPL/QSI	P+10		
Sam	ple Collected	By SEEPL R	eprese	ntative			- Weeks - Weeks			
Mor	ith of Samplin	g Februar	y 2022							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Ding	na(Mahara	shtra State](M-A2)	6				
Ave	rage Ambient	Temperature (°C)	30.9	Average	Humidity (%)	73	Latitude	N 15º46'1	2,3*	
Ave	rage Wind Spe	ed (km/hr)	1.9	Average	Wind direction (Dej	g) 233	Longitude	E 73º49'2	20.5*	
Inst	ruments Used		FPS(/	APM-550),	RDS(APM-460) &G	PS (APM	-411)			
Sr.	Date of	Depart No.		PARAMETERS						
No	Sampling	Report No.		PM <sub>10</sub>	PM2.5	SO <sub>2</sub>	NOx	co	SPM	
1,	03/02/2022	SEE/AR/02/2022/	0113	50,12	21.50	4.31	10.05	0.06	72.69	
Ζ,	07/02/2022	SEE/AR/02/2022/	0210	33.11	20.87	3.05	6.30	0.05	54.86	
З.	10/02/2022	SEE/AR/02/2022/	0319	59.96	19.54	5.67	<6.00	0.07	80.52	
4.	14/02/2022	SEE/AR/02/2022	0378	65.54	20.67	6.43	10.68	0.08	87.43	
5.	17/02/2022	SEE/AR/02/2022/	0508	19.14	8.19	<3.00	<6.00	0.03	28.44	
6.	21/02/2022	SEE/AR/02/2022/	0645	39.57	10.31	3.68	8.37	0,05	51.12	
7.	24/02/2022	SEE/AR/02/2022/	0723	41.77	14.60	<3.00	7.40	0.06	57.34	
8.	28/02/2022	SEE/AR/02/2022,	0761	65.34	21.79	5.38	10.84	0.03	88.75	
	NAA	QS Limits*		100	60	80	80	4	+	
6		Units		µg/ m <sup>3</sup>	µg/m²	µg/m <sup>3</sup>	µg/m³	mg/m <sup>3</sup>	µg/m	
Method				IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Parl 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV	

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

Note : Test results related only to the sample tested.

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

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

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

1)Dipali Sawant NDesa 2)Aditya Naik, Nandkumar Desai leep Sawant Ané Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LABL : Plot No. A-90, Read No. 16, Kisen Nagar Road, M.LD.C. Wagle Industrial Area, Thans - 409 004. Mahasashtia State, India.

Genetard By Minatry of Environment, Forest & Climate Orange, Govt Of India, B. O. 857 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Penaji-403 001. Gos State, India ② : (0832) 2437048 / 2437164

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1902-DTJ-2014)	LES-CCL/FF/MF/SC/1148	15/07/2021	14/07/2022

### **UV** Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



8-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Barduz, Porvorm, Panej-Gos-403 101. Gos State, india. (D.) (0832) 2411322 / 2411323 \* E-mail: startabgoa@rediffmail.com Lab accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by IBO 9901/2015 & IBO 45001 (2018

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SEWEUFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	ORT			
Rep	ort Date	03/03/2	022							
Name of Client M/s. Megawide C/o GMR Goa in					ion DMCC I Airport Limited					
Add	ress of Client									
Sam	pling Plan	SEEPL/I	D/FM	Γ-54	Sampling Procee	lure No.	SEEPL/QSI	P-10		
Sam	ple Collected I	By SEEPL R	eprese	ntative						
Mor	th of Samplin	g Februar	y 2022							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Neta	rde[Mahar	ashtra State)(M-A3	)				
Ave	rage Ambient	Temperature (°C)	31.4	Average	Humidity (%)	72	Latitude	N 15º46'	11.7*	
Ave	rage Wind Spe	ed (km/hr)	2.1	Average	Wind direction (De	g) 243	Longitude	E 73°50'4	8.0"	
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (APN	f – 411)			
Sr.	Date of	Report No.			and the last television of television o	PARAM				
No	Sampling			PM <sub>10</sub>	PM2.5	SO2	NOx	co	SPM	
1.	03/02/2022	SEE/AR/02/2022/	1/7/10/10	62.11	19.17	4.31	8,59	0.06	84.05	
2,	07/02/2022	SEE/AR/02/2022/	0211	80,28	14.22	<3.00	7.68	0.07	94.92	
З,	10/02/2022	SEE/AR/02/2022/	0320	83.61	22.75	5.95	<6.00	0.03	129.1	
4.	14/02/2022	SEE/AR/02/2022/	0379	75.38	20.13	4.37	12.65	0.09	98.36	
5,	17/02/2022	SEE/AR/02/2022/	0509	26.11	6.61	<3.00	<6.00	0.05	33.74	
б.	21/02/2022	SEE/AR/02/2022/	0646	78.00	19.13	5.65	8.50	0.06	99.49	
7,	24/02/2022	SEE/AR/02/2022/	0724	59.53	21.04	<3.00	9.70	0.03	83,00	
8.	28/02/2022	SEE/AR/02/2022/	0762	66.04	13.22	4.91	11.40	0.06	81.27	
	NAA	QS Limits*		100	60	80	80	4	1.25	
1		Units		$\mu g/m^3$	µg/m <sup>3</sup>	µg/m <sup>3</sup>		mg/m3	µg/m	
	1	Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02	and the second sec	IS 5182( Part 10)	IS 5182 Part IV	

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

Note : Test results related only to the sample tested.

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

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

1)Dipali Sawant NDESCH 2)Aditya Naik, Näridkumar Desai ideep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB : Plot No. A-IRI, Road No. 10, Kisan Nagar Road, M.LD.C. Wegle Industrial Ana, Thene - 400 604. Mahareshtra Steel, India. (6) (61-32) 2583 3321 / 2583 3322 / 2583 3324 / 2583 3324 · E-mail: prograduationmetry.com / paulotartiggem Page 316 of 430

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Respirable Dust Sampler's with Gaseous Sampling

Sr Na.	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)	20/11/2021	19/11/2022



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Varem, Alto, Old Betlin Road, Bardez, Porvorim, Partaj-Goa-403 101. Goa State, India. 40 :: (0832) 2411322 / 2411323 \* E-mail : atariatigoo@rediffmail.com Lab according by MoEF & CC Valid up to 03.11.2023 + Certified by ISO 9001.2018 & ISO 45601.2018

SHARE WHITEH SPWELIFE

Report No		SEE/AR/02/20	022/0321	Date of I	ssue	17/02/20	22	
Name of (		M/s. Megawid	e Construction DMCC International Airport Limited					
	realitions.		a international Airport	Limited				
Address o		Mopa, Goa	Endermontal condition of tab					
Sample Collected By SEEPL Repre			sentative	Environ		mental condition of Lab		
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		10/02/2022	Tem	perature(°C)	28.4	Humidity (%)	67	
Analysis !	Started On	15/02/2022	Anal	ysis Complete	d On	17/02/2022		
			AMBIENT AIR LOC	ATION				
ocation o	f ambient air stat	tion Mopa	Boundary (Goa State)					
nstrument	ts Used		ic Vapour Sampler					
n			emical Testing - Atm					
Sr. No.		ameters	Result	Unit		Meth	od	
01.	Total VOC		<1.0	pṗm	M	ethod 18		
: Te : Th	st results relate o nis certificate may	y not be reproduce	e tested. n prevailing at the time d in part, without the p used in monitoring and	ermission of	this laborate			
: Te : Tt	st results relate o nis certificate may	only to the condition y not be reproduce	n prevailing at the time d in part, without the p	ermission of	this laborate			
: Te : Th	st results relate o nis certificate may	only to the condition y not be reproduce	n prevailing at the time d in part, without the p	ermission of	this laborate			

Datetted By Ministry of Environment, Forest & Clenate Change, Govi D'India, B. O. 857 (E) BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 501, Goa State, India 🕐 : (0632) 2437048 / 2437164

🕐 (91-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3324 + E-mail: prod/websterement.com / predotert-figure Page 318 of 430

Organic Vapour Sampler

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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

Page 319 of 430



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Oki Betim Road, Bardez, Porvorm, Panaji-Goa-403 101. Goa Stale, India. (D.: (0832) 2411322 / 2411323 · E-mail : startatignal@rediffmail.com Lab accredited by MoEF & CC Valid up to 03.11.2023 Cartified by ISO 9001.2015 & ISO 45001.2018

SWE WRITER SPICENCE

		1	Pulliplicht	AIN NOAL	TY MONITORING	a mur on	M	1		
		/AR/02/2022/	R/02/2022/0322		Date of Issue		17/02/2022			
Name of	Client		Megawide C GMR Goa int		MCC rport Limited					
Address	of Client	Мор	a, Goa							
Sample C	Collected By	By SEEPL Represe			Environme			ental condition of Lab		
Date of Sampling 10		10/0	0/02/2022		Temperature(°C)	28.4	Hu	midity (%)	67	
		15/0	15/02/2022		Analysis Completed On		17/02/2022			
		-	A	MBIENT AIR	LOCATION					
ocation o	of ambient air stat	tion	HSD Bunk	(Inside Mor	a Airport Premise	es)				
nstrumen				apour Samp						
			-		Atmospheric P	ollution				
Sr. No.	Par	ameters		Result		Unit		Method		
01.	Total VOC			<1.0	ppn	ppm		Method 18		
: Те : Т	his certificate ma	only to the y not be re	condition proproduced in	evailing at th part, without	, e time of samplin t the permission o ig and / or analys	f this lab		alysis report.		
: Те : Т	est results relate on his certificate ma	only to the y not be re	condition proproduced in	evailing at th part, without	t the permission of	f this lab		alysis report		
: Те : Т	est results relate on his certificate ma	only to the y not be re	condition proproduced in	evailing at th part, without	t the permission of	f this lab		alysis report		
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: Те : Т	est results relate on his certificate ma	only to the y not be re	condition proproduced in	evailing at th part, without I in monitorin	t the permission of ig and / or analys	If this lab	side of an	alysis report	mbup	
: Te : Ti : Ca	est results relate on his certificate ma	only to the y not be re	condition proproduced in	evailing at th part, without I in monitorin	t the permission of ig and / or analys	If this lab	side of an		teep Sawant	

HEAD OFF. & LAB : Plot No. A 95, Road No. 16, Kisan Nagar Road, M.LO.C. Wagle industrial Area, Thane - 400 604, Mahanastera Blate, India. 1 (91-32) 2583 3321 / 2583 3322 / 2585 3323 / 2585 3323 / 2583 3324 • [ mail : profiteebolarem/m.com / psedekar5 () profit Gaustied By Minkey of Environment, Forest & Climate Change, Govi Df India, S. O. 857 (E)

BRANCH OFF. : 310, Dempo Towent, EDC Patto, Panaji-403 001. Gos State, India @ : (0832) 2437045 / 2437164 E-mail adokarym/m@mdffmail.com • Weballe www.adokarymim.com • CIN - U4520044+1998PTC-116379 Organic Vapour Sampler

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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



B-306/307, Plut No. 61, Palet Estate, Reis Meges, Verem, Ato, Old Belin Road, Barduz, Porvolini, Panaj-Goa 403 101. Goa State, India. ② : (0832) 2411322 / 2411323 € E-mail: statiabgrai@rediffmat.com Lab.accredited by MoEF & CC Valid up to 03.11 2023 ★ Certified by ISO 9001:2015 & ISO 45001:2018 SAVE WHERE SAVE LIFE

	AMBIENT AIR QU	ALITY MONITORING	REPORT		
Report No.	SEE/AR/02/2022/0323	Date of I	Date of Issue		22
Name of Client	M/s. Megawide Constructio C/o GMR Goa international				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative	Environmental condition of Lab			
Date of Sampling	10/02/2022	Temperature(°C)	28.4	Humidity (%)	67
Analysis Started On	15/02/2022	Analysis Completed On 17/02/2022			
	AMBIENT	AIR LOCATION			

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

#### Chemical Testing - Atmospheric Pollution

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

Note : Test results related only to the sample tested.

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

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Susmita Kapdoskar Analyzed by

Nega Nandkumar Desai Reviewed by

Anaddep Sawant Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95. Road No. 16, Klaan Hagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 504. Maharashtro State, India. (2) : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail : pro@eadekarem/m.com / peadekar5@pmi/Page 322 of 430 Gapytiet By Ministry of Emissionetti, Ferral & Climate Change, Govt D/ India, S. O. 857 (E)

BRANCH OFF.

: 310, Dempo Towers, EDC Patto, Panaji-403-001. Goa State, India C : (0832) 2437048 / 2437164 E-mail : sadekarenviro@rediffmat.com \* Wabiite : www.sadekarenviro.com \* CIN - U45209MH1998PTC-116379 Organic Vapour Sampler

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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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#### Page 323 of 430

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B-305/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Allo, Old Betim Road, Bardez, Porvoim, Panej-Goa 403 101. Goa State, India. ② : (0832) 2411322 / 2411323 \* E-mail : startatigoo@codiffmail.com Listi accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001.2016 & ISO 45001 :2018 SPACE LEASE

	NOISE LEVE	MONITORING RE	PORT	
Report No.	SEE/AR/02/2022/0380-0381, 0 0615, 0324, 0705, 0685, 0616	and the second	Report Date	28/02/2022
Name of Client	M/s. Megawide Construction D C/o GMR Goa international Air		11 1	(A)
Address of Client	Mopa, Goa			
Sample Collected By	SEEPL Representative			
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Pro	cedure No.	SEEPL/QSP-10

#### Chemical Testing - Atmospheric Pollution

Sr.	Date of	Report No.	Station	Zone	Sampling Location		Day Time ise in dB(	10.01 al	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	light Timi ise in dBl	
No	Monitoring		ID.	56563042		Lmin	Lmax	Leq	Lmin	Lmax	Leg
Τ.	14/02/2022	SEE/AR/02/2022/0380	G-N1	1	Mopa Boundary	30.1	76.4	63.9	31.3	69.4	52.3
2.	14/02/2022	SEE/AR/02/2022/0381	G-N2	1	Shemecheadvan Boundary	33.5	81.2	64.2	30,0	69.5	53.5
3,	16/02/2022	SEE/AR/02/2022/0490	G-N3	C	Nagzar	30.0	71.6	58.3	30.0	65.9	49.7
4.	16/02/2022	SEE/AR/02/2022/0491	G-N4	R	Purva Casarvarnem	30.0	66.0	49.5	30.0	63.8	39.5
5.	10/02/2022	SEE/AR/02/2022/0325	G-N5	R	Chandel	30.1	63.3	49.7	30.0	49.9	39.7
б.	18/02/2022	SEE/AR/02/2022/0615	G-N6	R	Khajne Amere Porscodem	30.0	55.5	49.1	30.1	59.3	38,9
7,	10/02/2022	SEE/AR/02/2022/0324	G-N7	R	Warkhand	30.0	61.3	49.5	30.0	51.0	39.5
8,	23/02/2022	SEE/AR/02/2022/0705	G-N8	С	Rajvil Wada Torxem	30.9	79,4	59.0	33.4	70.6	46.4
9.	22/02/2022	SEE/AR/02/2022/0685	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvern	30.0	76.5	59.1	30.7	61.3	49.9
10.	18/02/2022	SEE/AR/02/2022/0616	M-N1	R	Satarda	30.2	59.9	47.2	30.0	53.6	38.7
11.	22/02/2022	SEE/AR/02/2022/0684	M-N2	R	Dingna	31.3	64.8	49.9	30.3	55.2	39.8
12.	23/02/2022	SEE/AR/02/2022/0705	M-N3	R	Netarde	30.0	71.0	49.8	30.0	56.7	39.6

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 o	(B(A) Log	
ruea coulo	Galegoly of Area	Day Time	Night Time	
(A)	Industrial Area (1)	75	70	
(8)	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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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

Sanjiyan Gawas Nandkumar Desai deep Sawant Monitored by Reviewed by Authorized Signatory

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#### Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/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	sise Level Meter LES-CCL/MECH/SLM/347 18/07/2021		18/07/2022

11



B-306/307, Plot No. 61, Patel Estate, Reis Magon, Veren, Alto, Old Beter Road, Bardez, Purvorin, Panaji-Gos-403-101. Goa State, India. 40 .: (0832) 2411322 / 2411323 \* E-mail : startabgoa@red#mail.com Lab accordited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001:2015 & ISO 45801 (2018

SIVE LURGER SHIVE UPE

				FOR WATER SAMP	22	245.03	123120
				Issue Date 15/02/2022			
Name	of Client	Ws. Megawide C C/o GMR Goa Ir					
Addre	ess of Client	Mopa, Goa					
Order	/ Reference	As per dated 07/	02/2022	Environmental Conditi	ion of Lab	Temp <sup>0</sup> C 28.1	Humidity % 68
Samp	ling point	WTP-Treated					
Samp	vie details	Treated Water sa	ample	Date of collect	tion	07/02	/2022
Samp	e Collected by	SEEPL Represer	ntative	Sample Recei	ived On	07/02	/2022
Analy	sis Started On	07/02/2022		Analysis Com	pleted On	15/02	/2022
Samp	de Container	Glass bottle		Sample Quan	tity	5000	ml
Chen	nical Testing				<u></u>		
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Method	
1.	pН	7.37		6.5 - 8.5	IS 3025 (Pa	art 11)	
2.	Turbidity	0.33	NTU	1.00	IS 3025 (Pa	art 5)	
3.	Taste	Agreeable	+	Not Specified	APHA( 23	Edition ) 2160	8
4.	Color	<1.00	Hazen uni	it Not Specified	APHA( 23rd	Edition ) 2120	В
5.	Odour	Agreeable	~	Not Specified	APHA( 23rd	Edition ) 2150	В
6.	Total Alkalinity	20.00	mg/lit	200.00	IS 3025 (Pr	S 3025 (Part 23)	
7.	Total Dissolved Solids	40.00	mg/lit	500.00	IS 3025 (Pa	S 3025 (Part 16)	
8.	Chlorides as Cl ·	<10.00	mg/lit	250.00	IS 3025 (Pr	3025 (Part 32)	
9.	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (Pa	art 24)	
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23*	Edition ) 4500	S <sup>2</sup> F
11.	Total Hardness as CaCC	24.00	mg/lit	200.00	IS 3025 (Pa	art 21)	
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (P	Part 34)	
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of	f IS 3025 (Part	39): 1991

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Pana)-403 001. Goa State, India (0 : (0832) 2437048 / 2437164 fi-mail ( unde kanneviro@mdiffmail.com \* 1000 • CIN . LI452094441608PTFL116379 Mr Sil

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	2	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

Repo	rt No.	SEE02/2022	186	lss	ue Date	15/02/2022	
Orde	/ Reference	As per dated	07/02/2022	Sa	mple Received On	07/02/2022	
Anały	sis Started On	07/02/2022		An	alysis Completed (	On 15/02/2022	
Name	a of Client	M/s. Megawi C/o GMR G		ion DMCC nal Airport Limite	d		
Chen	nical Testing						
Sr. No.	Parameter	Result	Unit	IS desirat Limit (As po 10500)	3.7	Method	
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (P	art 26)	
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (P	art 34)	
16.	Fluoride as F	<0.10	mg/iit	Not Specif	ied APHA( 23*	Edition) 4500 F D	
17.	Phenolic compound	<0.02	mg/iit	Not Specif	ied APHA( 23*	Edition ) 5530-B,C	
18.	Cyanide	<0.01	mg/lit	Not Specif	ied APHA(23*	APHA( 23#Edition ) 4500 CN -1	
19.	Anionic Detergents	<0.10	mg/lit	Not Specif	ied APHA(23*	Edition) 5540 – C	
letal	Analysis						
20.	Aluminium as Al	<0.01	mg/Rt	0.03	IS 3025 (P	art 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (P	art 2)	
22,	Boron as B	<0.01	mg/lit	0.50	IS 3025 (P	art 2)	
23	Calcium as Ca	5.61	mg/lit	Not Specif	ied APHA(23	Edition ) 3500Ca B	
24,	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (P	art 2)	
25	Iron as Fe	0.04	mg/lit	1.00	IS 3025 (P	Part 2)	
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (P	Part 2)	
27.	Magnesium as Mg	2.42	mg/lit	Not Specif	ied APHA( 23	Edition ) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit	Not Specif	ied APHA( 23/	"Edition ) 3120 B	
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (P	Part 2)	
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (P	Part 2)	
31.	Sodium as Na	<1.00	mg/lit	Not Specif	fied APHA(23	Edition) 3120 8	
32.	Potassium as K	<1.00	mg/lit	Not Specif	fied APHA( 23	Edition) 3120 B	
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (P	art 2)	

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By



				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	1	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

Report No.	SEE02/2022/186	Issue Date	15/02/2022
Order / Reference	As per dated 07/02/2022	Sample Received On	07/02/2022
Analysis Started On	07/02/2022	Analysis Completed On	15/02/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

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

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

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NDERCE Nandkumar Desai Reviewed By



Apandeep Sawant

				Calibration Details		
Sr. No.	Equipment Name	Equipment Name Id Certificate No.		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 26/06/202		
03.	U V Spectrophotometer	Q/0166	8	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 26/08/202		
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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SAME WATER 牙所加的

Repo	rt No.	SEE/02/2022/184	4	Issue Date		15	102/2022
Name	of Client	His Manuala Constantion DMCC					
Addre	ess of Client	Mopa, Goa					
Order	/ Reference	As per dated 07/	02/2022	Environmental Condit	tion of Lab	Temp <sup>0</sup> 28.1	C Humidity % 68
Samp	ling point	Borewell 1					.f.t
Samp	le details	Ground Water		Date of collect	tion	07	//02/2022
Samp	le Collected by	SEEPL Represer	ntative	Sample Rece	ived On	07	//02/2022
Analy	sis Started On	07/02/2022		Analysis Corr	npleted On	15	5/02/2022
Samp	le Container	Glass bottle		Sample Quar	tity 5000 mi		
Chen	nical Testing		-	10 destadate	1		
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method		od
1,	pH	6.68		6.5 - 8.5	IS 3025 (Part 11)		
2.	Turbidity	0.62	NTU	1.00	IS 3025 (Pr	IS 3025 (Part 5)	
3.	Taste	Agreeable		Not Specified	APHA( 23%	Edition) 21	60 B
4.	Color	<1.00	Hazen uni	t Not Specified	APHA(23	Edition ) 21	20 B
5.	Odour	Agreeable	-	Not Specified	APHA(23	Edition ) 21	50 B
6.	Total Alkalinity	96.00	mg/lit	200.00	IS 3025 (P	art 23)	
7.	Total Dissolved Solids	150.00	mg/lit	500.00	IS 3025 (P	art 16)	
8.	Chlorides as Cl ·	11.51	mg/lit	250.00	IS 3025 (P	art 32)	
9.	Sulphate as SOr	<5.00	mg/lit	200.00	IS 3025 (P	art 24)	
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23	Edition ) 45	500 S/F
11,	Total Hardness as CaCO	3 100.00	mg/lit	200.00	IS 3025 (Part 21)		
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (F	Part 34)	
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 o	IS 3025 (F	Part 39)

Reviewed By

Authorized Signatory

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Analyzed by

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/08/202	
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021 26/08/2023	
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022

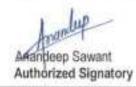
Repo	rt No.	SEE/02/2022/184		Issue I	Date	15/02/2022
Orde	r / Reference	As per dated	07/02/2022	Sample	Received On	07/02/2022
Analy	sis Started On	07/02/2022		Analys	s Completed On	15/02/2022
Name	a of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited		W
Chen	nical Testing	1		1		
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26	5)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 3-	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23"Edit	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23redit	ion) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	Not Specified APHA( 23"Editi	
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA( 23#Edit	ion) 5540 - C
letal	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23.	Calcium as Ca	16.03	mg/lit	Not Specified	APHA( 23#Edit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25,	Iron as Fe	0.04	mg/lit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27,	Magnesium as Mg	14.50	mg/lit	Not Specified	APHA( 23mEdit	ion) 3500Mg B
28.	Chromium as Cr	0.01	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3120 B
29,	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	)
30,	Zinc as Zn	0.06	mg/lit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	3.00	mg/lit	Not Specified	APHA( 23 <sup>st</sup> Edit	ion) 3120 B
32	Potassium as K	3.00	mg/lit	Not Specified	APHA( 23#Edit	ion ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	1

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

And

Nandkumar Desai Reviewed By

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/06/20	
03.	U V Spectrophotometer	Q/0166	2	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 26/08/202	
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

Report No.	SEE/02/2022/184	Issue Date	15/02/2022
Order / Reference	As per dated 07/02/2022	Sample Received On	07/02/2022
Analysis Started On	07/02/2022	Analysis Completed On	15/02/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

#### **Microbiological Parameters**

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

1. Shreya Harmalkar, 2. Anisha Parab Analyzed by

NOCOL Nandkumar Desai Reviewed By



Anandeep Sawant Authorized Signatory

		n andre stander stand	1072	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 25/08/202		
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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SPREALING SPWELKE

Report No. SEE/02/2022/185			5	Issue Date		15/02	2022	
	of Client		Megawide Construction DMCC GMR Goa International Airport Limited					
Addre	ess of Client	Mopa, Goa	in the second					
Order	/ Reference	As per dated 07/	02/2022	Environmental Cond	ition of Lab	ion of Lab Temp <sup>b</sup> C Humidit 28.1 68		
Samp	ling point	Borewell No. 2						
Samp	le details	Ground Water		Date of colle	ction	07/02	2/2022	
Samp	le Collected by	SEEPL Represen	tative	Sample Rec	eived On	07/0	2/2022	
Analy	sis Started On	07/02/2022		Analysis Cor	npleted On	pleted On 15/02/2022		
Samp	le Container	Glass bottle + PV	/C Can	Sample Qua	tity 1000 ml + 4000m			
Chen	nical Testing			1				
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)		Method		
1.	pН	7.02	2	6.5 - 8.5	IS 3025 (Pa	IS 3025 (Part 11)		
2.	Turbidity	0.58	NTU	1.00	IS 3025 (Part 5)			
3,	Taste	Agreeable	-	Not Specified	APHA(23s	Edition ) 2160	В	
4.	Color	<1.00	Hazen un	it Not Specified	APHA( 23	Edition ) 2120	В	
5.	Odour	Agreeable		Not Specified	APHA(23	Edition ) 2150	В	
6.	Total Alkalinity	80.00	mg/lit	200.00	IS 3025 (P	art 23)		
7.	Total Dissolved Solids	129.00	mg/lit	500.00	IS 3025 (P	art 16)		
8.	Chlorides as Cl	12.51	mg/lit	250.00	IS 3025 (P	art 32)		
9.	Sulphate as SOr	<5.00	mg/lit	200.00	IS 3025 (P	art 24)		
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23	Edition ) 4500	S <sup>2</sup> F	
11.	Total Hardness as CaCO	76.00	mg/lit	200.00	IS 3025 (P	art 21)		
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (F	IS- 3025 (Part 34)		
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 d	FIS 3025 (Part	t 39)	

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/08/202	
07.	Laminar Air Flow	Q/001	2021/08/234	26/08/2021 26/08/202	
08.	Autoclave	Q/010	E2021/05/012	28/05/2021	28/05/2022

Repo	rt No.	SEE/02/2022/185		Iss	ue Date	15/02/2022
Order	/ Reference	As per dated	07/02/2022	Sar	mple Received On	07/02/2022
Analy	sis Started On	07/02/2022		Ana	alysis Completed On	15/02/2022
Name	of Client	M/s. Megawi C/o GMR Go		on DMCC al Airport Limited	j.	
Chen	nical Testing			1		
Sr. No.	Parameter	Result	Unit	IS desirabl Limit (As per 10500)	T .	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 3	(4)
16.	Fluoride as F	<0.10	mg/2t	Not Specifie	ad APHA( 23"Edit	tion) 4500 F D
17,	Phenolic compound	<0.02	mg/iit	Not Specific	ad APHA( 23#Edi	tion) 5530-8,C
18.	Cyanide	<0.01	mg/lit	Not Specified APHA( 23#Editi		tion) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specifie	ed APHA( 23#Edi	tion) 5540 - C
letal .	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	?)
21,	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	!)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	2)
23.	Calcium as Ca	18.43	mg/lit	Not Specific	ed APHA( 23ªEdi	tion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	?)
25.	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2	2)
26.	Lead as Pb	<0.01	mg/iit	0.01	IS 3025 (Part 2	2)
27.	Magnesium as Mg	7.23	mg/赋	Not Specifi	ed APHA( 23rdEdi	tion) 3500Mg B
28.	Chromium as Cr	<0.01	mg/R	Not Specifi	ed APHA( 23ªEdi	tion ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	2)
30.	Zinc as Zn	0.01	mg/lit	5.00	IS 3025 (Part 2	2)
31,	Sodium as Na	7.00	mg/lit	Not Specifi	ed APHA( 23"Ed	tion ) 3120 B
32,	Potassium as K	5.00	mg/lit	Not Specifi	ed APHA( 23#Ed	ition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 3	2)

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 26/08/202	
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

Report No.	SEE/02/2022/185	Issue Date	15/02/2022
Order / Reference	As per dated 07/02/2022	Sample Received On	07/02/2022
Analysis Started On	07/02/2022	Analysis Completed On	15/02/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

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

Note: Test results related only to the sample tested.

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			Certificate No.	Calibration Details		
Sr. No.	Equipment Name	Equipment Id		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	2	Inhouse Calibration		
04.	ICP- DES	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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/02/2022/179	Issue Date	15/0	2/2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa	54					
Order / Reference	As per dated 07/02/2022	07/02/2022 Environmental Condition of Lab		Humidity %			
order / reserved	Ha per dated offozizozz	Environmental conductor of Lab	28.1	68			
Sampling point	R.R. Canteen						
Sample details	Drinking Water	Date of collection	07/02/2022				
Sample Collected by	SEEPL Representative	Sample Received On	07/0	02/2022			
Analysis Started On	07/02/2022	Analysis Completed On	15/	02/2022			
Sample Container	Glass bottle	Glass bottle Sample Quantity					

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaj-403 001, Goa State, Iodia () : (0832) 2437048 / 2437164 E-mail: audetexenviro@redifimal.com \* Website: www.sadatexenviro.com \* City - U452084H1998PTC-116379

	Failtymant Nama			Calibration Details		
Sr. No.		Certificate No.	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 REPOR	RT FOR	WATER SAMPLE			
Report No.	SEE/02/2022/183		Issue Date		15/02/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa International					
Address of Client	Mopa, Goa					
Outer (Bataman)	to an inter of 0700/0000 Environment		nmental Condition of Lab	Temp	°.C	Humidity %
Order / Reference	As per dated 07/02/2022	Environmental Condition of Lab		28.1		68
Sampling point	K.M.V Colony					
Sample details	Drinking Water		Date of collection	07/02/2022		2022
Sample Collected by	SEEPL Representative		Sample Received On	07/02/2022		2022
Analysis Started On	07/02/2022		Analysis Completed On	15/02		2022
Sample Container	Glass bottle	Glass bottle Sample Quantity 1000 ml				

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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Sr. Equipment Name				Calibration Details		
	Equipment Id	Certificate No.	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	26/08/202	
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 REPOR	RT FOR WATER SAMPLE				
Report No.	SEE/02/2022/182	Issue Date	Issue Date		2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 07/02/2022	Environmental Condition of Lab		Temp ° C	Humidity %	
Otdel / Meletenice	As per dated VITUZIZUZZ	Environmenter condition of t		28.1	68	
Sampling point	V.N.C Colony					
Sample details	Drinking Water	Date of collection	Date of collection		07/02/2022	
Sample Collected by	SEEPL Representative	Sample Received On		07/02/2022		
Analysis Started On	07/02/2022	Analysis Completed (	Din	15/02/	2022	
Sample Container	Glass bottle	Glass bottle Sample Quantity				

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				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	26/08/202.	
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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SIMENTIAL SAVELINE

	ANALYSIS REPOR	RT FOR WATER SAMPLE						
Report No.	SEE/01/2022/180	Issue Date	15/0	2/2022				
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa							
Address of Client	Mopa, Goa	Mopa, Goa						
Order / Reference	As per dated 07/02/2022	Environmental Condition of Lab	Temp <sup>III</sup> C	Humidity %				
Urder / Posterence	No per ubiou UNUZIZUZZ	Environmental continuor or cab	28.1	68				
Sampling point	L.S.C Colony							
Sample details	Drinking Water	Date of collection	07/0	2/2022				
Sample Collected by	SEEPL Representative	Sample Received On	07/02/2022					
Analysis Started On	07/02/2022	Analysis Completed On	15/0	2/2022				
Sample Container	Glass bottle	Sample Quantity	1000	1000 ml				

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				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	26/08/202	
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	
	1					



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	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	SEE/02/2022/181	Issue Date		15/02/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 07/02/2022	2 Environmental Condition of Lab		0 C	Humidity %
Citile / Reference	Ha per dates onosizozz	Controlainental Controlori or Car	28.	1	68
Sampling point	A.T.C Tower				
Sample details	Drinking Water	Date of collection		07/02/2022	
Sample Collected by	SEEPL Representative	Sample Received On		07/02/2022	
Analysis Started On	07/02/2022	Analysis Completed On		15/02/	2022
Sample Container	Glass bottle	Sample Quantity		1000 ml	

Microbiological Parameters

Parameter	Result	Unit	Limit (As per IS 10500)	Method	
MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23rtEdition ) 9221-B	
bli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23=Edition ) 9221-G	
		MPN Absent	MPN Absent MPNIndex/100ml	MPN Absent MPNIndex/100ml Not Specified	

Note: Test results related only to the sample tested.

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2	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				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 REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/02/2022/175		Issue Date	15/02/20	22	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
Order   Balances	A		and the second second	Temp <sup>0</sup> C	Humidity %	
Order / Reference	As per dated 07/02/2022	Environmental Condition of Lab		28.1	68	
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		
Sampling point	STP					
Sample details	Inlet Water		Date of collection	07/02/2022		
Sample Collected by	SEEPL Representative		Sample Received On	07/02/2022		
Analysis Started On	07/02/2022		Analysis Completed On	15/02/2022		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml		

Chan	I and	Dogwood
Cner	nical	Parameters

Sr. No.	Parameters	Results	Unit	Method
Ť,	pН	6.54		APHA( 23 <sup>st</sup> Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1480.00	mg/lit	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	460.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	264.00	mg/lit	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	18.00	mg/lit	APHA( 23rdEdition ) 5520-0 &G

Note: Test results related only to the sample tested.

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Analyzed By

NOCON Nandkumar Desai

Reviewed By

Anandeep Sawant Authorized Signatory

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01,	pH Meter	Q/062	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	



B-305/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto. Oki Better Road, Bardez, Porvorim, Panag-Goa-403 101. Goa State, India. ⑦ : (3832) 2411322 / 2411323 \* E-mail : startatigna@rediffmail.com Lab.accredited by MoEE & CC Velid up to 03.11.2023 \* Certified by ISO 9001:2016 & ISO 45001 :2018 SAVE LINDER SAVE LIFE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/02/2022/176		Issue Date	15/02/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
A 10 10 10 10 10 10	A	Environmental Condition of Lab		Temp ° C	Humidity %	
Order / Reference	As per dated 07/02/2022			28.1	68	
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		
Sampling point	STP					
Sample details	Outlet Water		Date of collection	07/02/20	22	
Sample Collected by	SEEPL Representative		Sample Received On	07/02/2022		
Analysis Started On	07/02/2022		Analysis Completed On	15/02/2022		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000mi		

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.78		5.5 - 9.0	APHA( 23redition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	168.00	mg/lit	250.00	APHA( 23#Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	25.32	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	70.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	5.40	mg/lit	10.00	APHA( 23=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.

CUPAN Mugdha Gawade

Analyzed By

BRANCH OFF.

ND@8.04 Nandkumar Desai

Reviewed By

Agandeep Sawant Authorized Signatory

CIN . U452004H400APTC. \$16370

HEAD OFF. & LAB : Prot No. A-95, Road No. 16, Kisan Neger Road, M.1.D.C. Wagle Industrial Area, There - 400 654. Mahatashina Stale, India. (2): (91-22):2583:3321 / 2583:3322 / 2583:3324 • E-mail : pra@adekanamin.com / paadekar5@gmePage:356 of 430 Galatted by Ministry of Environment, Forest & Climate Change, Gost Of India, S. D. 857 (E)

: 310, Dempo Towers, EDC Patto, Panaj-403 001. Gos State, India (2): (0832) 2437048 / 2437164

mai.com \*

				Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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



8-305/307, Plot No. 61, Patal Estate, Reis Magos, Varem, Alto, Old Better, Road, Bardez, Porvolim, Panaj-Goa-403 101. Gos State, India. 10 : (0832) 2411322 / 2411323 \* E-mail : startabgoa@excitimat.com Lab accordited by MoEF & CC Valid up to 03.11.2023 \* Certified by IBO 9001:2015 & ISO 45501 :2018

SPIVE WRITER 编成URE

		Issue Date imited	15/02/20	22					
/o GMR Goa Internationa opa, Goa		imited							
	1								
			Mopa, Goa						
1		e ante providente		Humidity %					
As per dated 07/02/2022	Environmental Condition of Lab		28.1	68					
EEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10						
TP (KMV)									
Inlet Water		Date of collection	07/02/2022						
SEEPL Representative		Sample Received On	07/02/2022						
07/02/2022		Analysis Completed On	15/02/2022						
Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml						
	EEPL/LD/FMT- 54 P (KMV) et Water EEPL Representative 202/2022	EEPL/LD/FMT- 54 Samplin P (KMV) let Water EEPL Representative 202/2022	EPL/LD/FMT- 54 Sampling Procedure No.  P (KMV)  et Water Date of collection EPL Representative Sample Received On 2/02/2022 Analysis Completed On	28.1       EEPL/LD/FMT- 54     Sampling Procedure No.     SEEPL/QSP       IP (KMV)       let Water     Date of collection     07/02/2022       EEPL Representative     Sample Received On     07/02/2022       //02/2022     Analysis Completed On     15/02/2022					

Sr. No.	Parameters	Results	Unit	Method	
1.	pН	6.61		APHA( 23 <sup>rd</sup> Edition ) 4500 H+-B	
2.	Chemical Oxygen Demand (COD)	640.00	mg/lit	APHA( 23"Edition ) 5220-B	
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	174.93	mg/lit	IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	105.00	mg/lit	APHA( 23 <sup>o</sup> Edition ) 2540-D	
5.	Cil & Grease (O & G)	9.60	mg/lit	APHA( 23rdEdition ) 5520-O &G	

Note: Test results related only to the sample tested.

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Aclu Mugdha Gawade

Analyzed By

Reviewed By

NO2804 Nandkumar Desai

Mandeep Sawant Authorized Signatory

HEAD OFF, & LAB : Plot No. A-95, Road No. 15, Klazn Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Mahateehtte State, India. (Č): 191-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail: pro@adukammito.com / paduka:5@pmiPage 358 of 430 Datetted By Menany of Environment, Forest & Climate Change, Gost Of India, S. D. 857 (E)

: 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India 🕐 : (0832) 2437048 / 2437164 BRANCH OFF. ail : sadeksrewindBrediffmail.com # W CODE # CIN - UA52/064/41008PTD, 110370

				Calibration Details		
Sr. No.	Equipment Name	Equipment Certificate No.		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	

# Equipment Calibration Details



8-305/307, Plot No. 61, Palel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Perverim, Panaji-Gos-403 101. Goa State, India. C .: (0832) 2411322 / 2411323 \* E-mail : startabgos@rediffmail.com Lab accredited by MoEF & CC Vidid up to 03.11.2023 # Certified by ISO 9001.2015 & ISO 45001.2018

SWEWRIGH 研究研究

	ANALYSIS REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/02/2022/178	SEE/02/2022/178 Issue Date			022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
		Temp ° C	Humidity %				
Order / Reference	As per dated 07/02/2022	Environmental Condition of Lab		28.1	68		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	ng Procedure No.	SEEPL/QS	2-10		
Sampling point	STP (KMV)	12					
Sample details	Outlet Water		Date of collection	07/02/2	07/02/2022		
Sample Collected by	SEEPL Representative	tative Sample Received On 07/02/2		022			
Analysis Started On	07/02/2022 Analys		Analysis Completed On	15/02/2	022		
Sample Container	Glass Bottle + PVC Can	Glass Bottle + PVC Can Sample Quantity			I + 1000ml		

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	5.69		5.5-9.0	APHA( 23rdEdition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	40.00	mg/lit	50.00 APHA( 23 <sup>rd</sup> Edition ) 5220-B	
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.50	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	14.00	mg/lit	20.00	APHA( 23redition ) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	10.00	APHA( 23"Edition ) 5520-O &G
6.	Ammonia	1.12	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH3B C
7.	Total Nitrogen ( as N)	6.00	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### **Microbiological Parameters**

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

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1. Mugdha Gawade 2. Anisha Parab Analyzed By

NDESO Nandkumar Desai Reviewed By

Anabdeep Sawant Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Klean Nager Road, M.I.D.C. Wagle Industrial Area, Thune - 400 604. Mahamahtma State, India. 1 (91-22) 2583 3321 / 2593 3322 / 2593 3323 / 2593 3323 / 2593 3324 + E-mol | progradekarenviro.com / psatekar5@pna Page 360 of 430 Gazefiel By Ministry of Environment, Funezi & Climate Change, Govt Of India, B. O. 857 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Patte, Panaj-403 501, Gen State, India (2) : (0832) 2437048 / 2437164 E-mail : sadokararweo@rodifmail.com \* 10 b : www.had 0.0011 • CIN - LM5209MH (9989TC-116378

				Calibratio	n Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

## Equipment Calibration Details



B-306/387, Pist No. 81, Panal Ealum, Reis Magos, Veren, Allo, Cid Defin Road, Bardez, Porvertin, Panaj-Gos-403 101. Geo State, India. 10 | (0832) 2411322 / 2411323 · E-eual : startubgoa@rediffmail.com Lab according by MoEF & GC Valid up to 03.11.2023 # Certified by ISO 9001.2015 & ISO 45001 (2018

SPACE LUFTER SAVE LIFE

		AMBI	ENT A	IR QUALIT	MONITOR	ING REPO	ORT		
Rep	ort Date	01/04/20	22						
Nan	ne of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited								
Add	iress of Client	Mopa, Goa							
Sarr	pling Plan	SEEPL/LL	/FMT-	54 Sam	pling Procedur	e No.	SEEPL/QSP-1	0	
San	ple Collected	By SEEPL Re	present	tative					
Mor	nth of Samplin	g March 20	22						
				AMBIENT A	IR LOCATION				
Loc	ation of ambie	nt air station	Mopa	a Boundary (C	ioa State) (G-A	1)		w	
Ave	rage Ambient	Temperature (°C)	32,1	Average H	umidity (%)	68	Latitude	N 15º45'	51.1"
Ave	rage Wind Spe	ed (km/hr)	1.8	Average W	Average Wind direction (Deg) 238		3 Longitude	E 73º56'3	32.4"
Inst	ruments Used	1	FPS(	APM-550), RE	S(APM-460) &	GPS (APM	- 411)		
Sr.	Date of	Report No.				PARAME	TERS		
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	03/03/2022	SEE/AR/03/2022/	0069	81.20	47.86	6.73	10.06	0.11	146.83
2.	07/03/2022	SEE/AR/03/2022/	0220	79.30	25.78	5.24	7.09	0.09	118.15
3.	10/03/2022	SEE/AR/03/2022/	0320	80.50	39.67	4.77	9,40	0.14	139.32
4.	14/03/2022	SEE/AR/03/2022/	0389	83.70	49.82	4.90	6.67	0.13	140.97
5.	17/03/2022	SEE/AR/03/2022/	0446	66.19	23.49	3.97	6.80	0.06	96.14
б.	21/03/2022	SEE/AR/03/2022/	0520	79.32	43.58	6.83	10.10	0.07	125.57
7	25/03/2022	SEE/AR/03/2022/	0742	85.90	24.87	9.14	14.06	0.11	124.25
8	28/03/2022	SEE/AR/03/2022/	8080	48.90	11.06	5.26	7.05	0.05	61.23
9	31/03/2022	SEE/AR/03/2022/	0870	83.40	46.20	7.48	8.47	0.07	140.99
	NAA	QS Limits*		100	60	80	80	4	*1
		Units		µg/ m <sup>1</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (P 02)	art. IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

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

1)Akash Pattade NDERG 2)Aditya Naik /\*\*\* Nandkumar Desai Ananooep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB : Plot No. A-05, Road No. 18, Kean Nagar Road, M.LO.C. Wagle Industrial Area, Thans. 400 604, Maharavintra State, India. 1 (91-22) 2583 3321 / 2593 3322 / 2593 3323 / 2593 3324 + E-mul . pro@sadekarewits.com / psadekar5@pr Page 362 of 430 Gazettest By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. HS7 (E)

BRANCH OFF. 1 310, Dempo Tireers, EDC Patto, Pana)-403 001. Goa State, India (2): (0832) 2437048 / 2437164 E-mail: sadebarem/editediffeat.com \* Website: www.sadebaretvins.com + Cbv - U45209MH1998PTC-116579

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022	

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



8-396/307, Plot No. 61, Patel Eutain, Reis Magon, Verem, Alto, Old Betlin Road, Bardez, Parvarin, Paneji-Goa-403 101, Goa State, India. (0): (9832) 2411322 / 2411323 • E-mail : starlabgoe@ex46fmail.com Lab accordited by McEE & CC Valid op to 03.11 2023 \* Certified by ISO 9001:2015 & ISO 45001 (2018) SEVE LIFE

		AMB	IENT A	AIR QUA	LITY MONITORI	NG RI	EPOI	RT		
Report Date 01/04/2022										
Nan	Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited									
Add	ress of Client	Mopa, G	oa							
San	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procedu	re No.		SEEPL/QS	P-10	
San	ple Collected i	By SEEPL F	leprese	ntative						
Mor	ith of Samplin	g March 2	022							
			0	AMBIE	NT AIR LOCATION					
10.0	ation of ambie		Shen	necheadva	an Boundary(Goa St	ate) (G	-A2)			
Ave	rage Ambient	Temperature (°C)	31.9	Averag	e Humidity (%)		66	Latitude	N 15º42'0	6.1"
Ave	rage Wind Spe	ed (km/hr)	1.7	Average Wind direction (Deg) 243 Longitu				Longitude	E 73949'21.5"	
Inst	ruments Used		FPS(	APM-550	), RDS(APM-460) &0	GPS (A	PM -	411)		
Sr.	Date of	Report No.				PARA	MET	ERS		
No	Sampling	Report No.	5	PM10	PM <sub>2.5</sub>	SO	2	NOx	co	SPM
1.	03/03/2022	SEE/AR/03/2022	/0070	86.50	33.27	6.0	D.	13.27	80.0	136.34
2.	07/03/2022	SEE/AR/03/2022	/0221	78.40	14.06	4.4	9	7.70	0.07	109.00
3.	10/03/2022	SEE/AR/03/2022	/0321	49.29	13.27	4.0	3	10.08	0.05	68.23
4.	14/03/2022	SEE/AR/03/2022	/0390	81.28	25.99	4.3	7	10.77	0.06	113.05
5,	17/03/2022	SEE/AR/03/2022	/0447	71.60	34.85	4.6	7	7.14	0.08	110.06
6.	21/03/2022	SEE/AR/03/2022	/0521	59.45	18,75	3.1	9	9.01	0.05	81.35
7	25/03/2022	SEE/AR/03/2022	/0743	58.84	35.93	3.7	4	10.91	0.07	99.29
8	28/03/2022	SEE/AR/03/2022	/0809	35.09	10.15	9.9	7	11.75	0.06	46.25
9	31/03/2022	SEE/AR/03/2022	/0871	34.23	15,59	8.1	5	10.28	0.05	51.21
	NAA	QS Limits*		100	60	80	6	80	4	-
	77459705	Units		μg/ m <sup>3</sup>	µg/m <sup>x</sup>	µg/1	n <sup>a</sup>	µg/m³	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 51 (Part	0.00	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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

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

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

1)Akash Pattade 10 2)Aditya Naik Sox Analyzed by

Nandkumar Desai Reviewed by

Anaddeep Sawant Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thates - 403 604, Maharashita State, India. (2) | (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail : pro@soddwormetro.com / pasteket/@prPage 364 of 430

Gazathed By Ministry of Environment, Forest & Climate Change, Govt Of India, IL D. 857 (6)

BRANCH OFF. 1 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (2): (0632) 2437048 / 2437154 E-mail: saddtarenviro@mail@natlfmail.com \* Website: aww.andebarenviro.com \* CN - 1453204411998FTC-114320

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022	

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



B-308/307, Plot No. 61, Parel Estate, Reis Mague, Venes, Alto, Old Bellin Road, Bardez, Porennin, Panaji-Gos-403 101. Gos State, India. 40 - (0632) 2411322 / 24113214 E-mail : startubgos/@middhaal.com Latb.accredited by MoEF & CC Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001.2018 SPINE LUPIDER SPINE LIPE

		AMB	IENT A	AIR QUA	LITY MONITORI	NG F	EPO	RT			
Rep	ort Date	01/04/	2022								
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited											
Add	lress of Client	Mopa, (	ioa	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	non a franciska sa ana shaka sa sa						
San	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procedu	re No	6	SEEPL/QSI	P-10		
San	ple Collected I	By SEEPL	Represe	ntative				a			
Moi	nth of Sampling	g March	2022								
				AMBIE	NT AIR LOCATION						
Loc	ation of ambie	nt air station	Nagz	ar(Goa St	ate) (G-A3)	_					
Ave	rage Ambient	Temperature (°C)	32,1	Averag	e Humidity (%)		68	Latitude	N 15º45'3	7.3"	
Average Wind Speed (km/hr) 1.7			Averag	Average Wind direction (Deg) 245			Longitude E 73º53'14.22"				
Inst	ruments Used		FPS(	APM-550	, RDS(APM-460) &	GPS (	APM -	411)			
Sr.	Date of	Report No.		PARAMETERS							
No	Sampling	Report No.	PM10 PM23 SO2		02	NOx	CO	SPM			
1.	03/03/2022	SEE/AR/03/2022	/0071	49.63	19.75	3.	80	9.52	0.05	71.95	
2.	07/03/2022	SEE/AR/03/2022	/0222	54.96	12.43	5.	01	B.83	0.06	70.05	
3.	10/03/2022	SEE/AR/03/2022	/0322	42.56	13.47	<3	00	7.98	0.03	60.65	
4.	14/03/2022	SEE/AR/03/2022	/0391	77.06	31.40	3.	25	11.96	0.07	113.0	
5.	17/03/2022	SEE/AR/03/2022	/0448	30.33	12.27	5	04	<6.00	80.0	44.98	
6.	21/03/2022	SEE/AR/03/2022	2/0522	48.70	19.75	5.	28	8.67	0.06	70.14	
7	25/03/2022	SEE/AR/03/2022	2/0744	34.66	24.33	5.	20	6.33	0.03	61.37	
8	28/03/2022	SEE/AR/03/2022	2/0810	35.28	20.42	4.	46	10.09	0.07	\$7.93	
9	31/03/2022	SEE/AR/03/2022	2/0872	47.43	15.93	10	38	12.66	0.06	66.64	
	NAA	QS Limits*		100	60	8	0	80	4	1.1	
		Units		µg/ m <sup>3</sup>	µg/m²		/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	pg/m	
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		182 102)	IS 5182 (Part 06)	IS-5182( Part 10)	IS 5183 Part IV	

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

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1)Akash Pattade NORDA 2)Aditya Naik Nandkumar Desai Anadecop Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Klaan Nagar Road, MJ.D.C. Wagle Industrial Area, Thans - 400 604. Maharashtra State, India. (0): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail: proglasdekarawinis.com / psedekar5@p.Page/366 of 430 Eazerbed By Minking of Environment, Forset & Climate Change, Gost Of India, S. O. 857 (6)

BRANCH OFF. 1 310, Demps Towers, EDC Patto, Panaji-403 001, Gos State, India (2): (0832) 2437048 / 2437164

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2027-DTD-2016)	LES-CCL/FF/MF/SC/1145	15/07/2021	14/07/2022

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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

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 B-306/307, Plot No. 81, Patel Estate, Reis Magos, Vesen, Altu. Old Betim Road, Bantez, Parvinte, Paneji-Goa-403 101. Goa Blate, India. (2) : (0832) 24113227 24113234 E-mail : starfetgoe@redifimal.com Lab accredited by MoEF & CC Valid up to 03.11.2023 & Certified by ISO 9001:2015 & ISO 45001.2018 SPIVE LUMINA SPIVE LIFE

		AMB	IENT A	IR QUAI	LITY MONITORIN	NG R	EPO	RT		
Rep	ort Date	01/04/	2022							
Name of Client M/s. Megawide C/o GMR Goal					tion DMCC al Airport Limited					
Add	iress of Client	Mopa, O	ioa							
Sam	pling Plan	SEEPL/	LD/FM	r- 54	Sampling Procedur	e No.		SEEPL/QSI	P-10	
Sam	ple Collected I	By SEEPL I	Represe	ntative						
Mor	th of Sampling	g March 2	2022							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Purv	a Casarvar	nem (Goa State)(G-	A4)				
Ave	rage Ambient	Temperature (°C)	31.4	Averag	e Humidity (%)	1	65	Latitude	N 15º41'4	$1.9^{n}$
Average Wind Speed (km/hr) 1.6			1.6	Averag	e Wind direction (D	eg)	216	Longitude	E 73º50'1	5.6"
Instruments Used FPS{			FPS(	2S(APM-550), RDS(APM-460) &GPS (APM – 411)						
Sr.	Date of	Report No.				PAR	AMET	ERS		
No	Sampling	Report no.		PM10	PM2.5	S	02	NOx	CO	SPM
1.	03/03/2022	SEE/AR/03/2022	/0072	67.72	30.98	8.	44	13.14	0.06	102.1
2.	07/03/2022	SEE/AR/03/2022	/0223	62.71	31.15	<3	.00	9.88	0.05	96.92
3.	10/03/2022	SEE/AR/03/2022	/0323	74.16	18.71	5.	00	9.54	0.08	97.97
4.	14/03/2022	SEE/AR/03/2022	/0392	83.20	32,85	3.	30	12.18	0.09	122.0
5.	17/03/2022	SEE/AR/03/2022	/0449	63.25	14.51	5.	06	<6.00	0.10	80.84
6.	21/03/2022	SEE/AR/03/2022	/0523	60.72	15.14	<3	.00	6.67	0.06	79.40
7	25/03/2022	SEE/AR/03/2022	/0745	49.62	19.88	- 4.	07	10.01	0.05	72.24
8	28/03/2022	SEE/AR/03/2022	/0811	47.62	21.12	4	10	9.03	0.06	71.39
9	31/03/2022	SEE/AR/03/2022	/0873	33.63	17.17	4	64	12.86	0.07	52.17
	NAA	QS Limits*		100	60	1	30	80	4	
		Units		μg/ m <sup>3</sup>	µg/m³	1.1.40	/m <sup>3</sup>	$\mu g/m^3$	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 rt-02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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1)Akash Pattade NDC90-2)Aditya Naik 34 Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

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Gazetted By Ministry of Environment, Formal & Climate Change, Gavi Of India, S. O. 657 (E)

BRANCH OFF. 1 310, Dampo Towers, EDC Patto, Panaj-403 601, Goa State, Iodia (2): (0832) 2437048 / 2437164

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO. 1456-DTD-2009)	LES-CCL/FF/MF/SC/1157	15/07/2021	14/07/2022	

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



B-566/307, Plot No. 61, Patel Extels, Reis Magos, Verem, Alte, Cid Betim Road, Bautez, Purvorim, Panaji-Gos-403 101. Gos State, Inde. 30 - (0832) 2411322 / 2411323 \* E-mail: idartetigoa@molifimal.com Late accordited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001.2015 & ISO 45501 :2018 SPIVE LUPITUR SPIVE LIFE

		AMB	IENT A	IR QUA	LITY MONITORIN	IG REP	ORT		
Rep	ort Date	01/04/	2022						
Nan	ne of Client				ion DMCC al Airport Limited				
Add	iress of Client	Mopa, G	oa						
Sam	pling Plan	SEEPL/	LD/FM	r- 54	Sampling Procedure	No.	SEEPL/QSP-1	0	
San	ple Collected I	By SEEPL I	teprese	ntative					
Mor	nth of Sampling	g March 2	022						
				AMBIEN	AT AIR LOCATION				
Loc	ation of ambie	nt air station	Khaji	ne Amere I	Porscodem (Goa Stat	e) (G-A		Internet production	
		Temperature (°C)	31.7		e Humidíty (%)	65	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	N 15º40'3	8.0"
Average Wind Speed (km/hr) 1.9				and and the second s	e Wind direction (De	No. Annal		E 73º46'2	1,2"
Instruments Used FPS(APM-5				APM-550),	RDS(APM-460) &GI	PS (APN	1-411)		_
Sr.	Date of	Report No.			1	PARAM	ETERS		
No	Sampling	Report No.		PM <sub>10</sub>	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	03/03/2022	SEE/AR/03/2022	/0073	56.31	18.21	3.93	12.23	0.07	75.38
2.	07/03/2022	SEE/AR/03/2022	/0224	28.57	11.35	4.21	10.03	0.06	-41.27
3.	10/03/2022	SEE/AR/03/2022	/0324	52.39	15.47	4.04	7.74	0.03	71.40
4.	14/03/2022	SEE/AR/03/2022	/0393	85.11	17.34	4.29	12.38	0.09	104.3
5.	17/03/2022	SEE/AR/03/2022	/0450	66.71	22.08	5.48	<6.00	0.06	110.0
6.	21/03/2022	SEE/AR/03/2022	/0524	26.03	10.60	<3.00	< 6.00	0.03	39,27
7	25/03/2022	SEE/AR/03/2022	/0746	45.51	21.21	<3.0	12.67	0.08	69.85
8	28/03/2022	SEE/AR/03/2022	/0812	39.78	15.22	10.13	9.10	0.05	56.15
9	31/03/2022	SEE/AR/03/2022	/0874	35.00	18.84	5.25	10.32	0.03	54.85
	NAA	QS Limits*		100	60	80	80	4	1.4
		Units		µg/ m³	µg/m <sup>a</sup>	μg/m	The second second	mg/m <sup>a</sup>	µg/m
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0	0.0000000000000000000000000000000000000	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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

1)Akash Pattade 1DESC 2)Aditya Naik Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF: & LAB : Flot No. A-95, Rued No. 16, Klaen Neger Road, M.I.D.C. Wegle Industrial Area, Thane - 400 604, Mehanastrina Blate, India. (2): (91-22) 2563 3322 / 2563 3322 / 2563 3323 / 2563 3324 + E-mell : proglesobleramino zom / pseudokartigo;Page 370 of 430

Gazettaid By Ministry of Environment, Forest & Climate Change, Govt Of India, S. O. 457 (6)

BRANCH OFF. 1 510, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India (2): (0832):2437048 / 2437164 E-mail: antidementent/fined/fined/come \* Website: www.aa/defameworks.com/ \* CNA, 1465200441/0040370

### Respirable Dust Sampler's with Gaseous Sampling

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

UV Spectrophotometer -

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



B-308/307, Plot No. 61, Palal Extain, Reis Magon, Verem, Alto, Old Berlin Road, Bardisz, Purvarim, Panaji-Goa-463-151. Goa State, India. 10: 10832) 2411322 / 3411323 \* E-mail: startabgoa@met#final.com Lala accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9801.2015 & ISO 46001 :2018 SPIVE LUFERIN SPIVE LIFE

		AMB	IENT A	IR QUAL	ITY MONITORIN	IG REPO	DRT		
Rep	ort Date	01/04/	2022						
Name of Client M/s. Megawide					ion DMCC al Airport Limited				
Add	ress of Client	Mopa, G	oa						
San	pling Plan	SEEPL/	LD/FM	r- 54	Sampling Proced	ure No.	SEEPL/QSI	P-10	
Sam	ple Collected	By SEEPL I	leprese	ntative					
Mor	nth of Samplin	g March 2	022						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Rajvi	l Wada To	rxem (Goa State)(G-	A6)			
Ave	rage Ambient	Temperature (°C)	31.9	Average	Humidity (%)	66	Latitude	N 15948'4	10.0*
Average Wind Speed (km/hr) 1.4			1.4	Average	Wind direction (Dep	g) 254	Longitude	E 73º52'5	50.2"
Instruments Used FPS(				APM-550),	RDS(APM-460) &G	PS (APM	- 411)		_
Sr.	Date of	Report No.				PARAME	TERS		
No	Sampling	Report No.		PM <sub>t0</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	co	SPM
1,	03/03/2022	SEE/AR/03/2022	/0074	66.45	19.46	6.70	10.41	0.05	87.46
2,	07/03/2022	SEE/AR/03/2022	/0225	59.13	16.38	3.55	10.05	0.03	78.27
3.	10/03/2022	SEE/AR/03/2022	/0325	52.32	20.33	4.08	6.90	0.08	74.01
4.	14/03/2022	SEE/AR/03/2022	/0394	72.81	22.16	4.09	9.30	0.10	97.79
5.	17/03/2022	SEE/AR/03/2022	/0451	54.78	18.88	3.10	<6.00	0.06	74.97
6,	21/03/2022	SEE/AR/03/2022	/0525	53.32	21.37	5.37	9.84	0.05	75:15
7	25/03/2022	SEE/AR/03/2022	/0747	79.50	35.68	5.49	6,58	0.10	121.9
8	28/03/2022	SEE/AR/03/2022	/0813	34.38	12.39	7.92	11.49	0.06	49.13
9	31/03/2022	SEE/AR/03/2022	/0875	42.63	19.38	5.09	12.10	0.05	63.23
NAAQS Limits*				100	60	80	80	4	
		Units		μg/ m <sup>3</sup> IS 5182(	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
	Method				Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	15 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

\*NATIONAL AMBIENT AIR STANDARDS (2009)

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1)Akash Pattade NOGPO 2)Aditya Naik Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF, & LAB : Plot No. A-95, Road No. 16, Klaan Nagar Road, M.I.D.C. Wagle Industrial Area. There - 400 604. Maharashtra State, India. (b) : (91-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3324 • E-mail : pro@sectedaremviro.com / peedekar5@:Page 372 of 430 Gatetted By Ministry of Environment, Foreit & Climate Change, Gevt Of India, S. 0: 657 (E)

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1897-DTJ-2014)	LES-CCL/FF/MF/SC/1151	15/07/2021	14/07/2022

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



# Sadekar Enviro Engineers Pvt. Ltd.

B-008/307; Plot No. 81, Patel Estate, Reis Magon, Veren, Altu, Oil Belin Rowd, Barduz, Porynim, Panaj-Gov-403 101. Goa Slate, India. (2) .: (0832) 2411322 / 2411323 \* E-mail : startabgoa(gred#mail.com Left accredited by MoEF & CC Valid up to 03.11.2023 # Certified by ISO 9001 2015 & ISO 45501 2018

SAME WRITER SINCLIFE

		AME	IENT /	AIR QUAL	ITY MONITORIN	IG REPO	RT		
Rep	ort Date	01/04/	2022						
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited									
Add	ress of Client	Mopa, (	ioa						
Sam	pling Plan	SEEPL/	LD/FM	T- 54	Sampling Procee	lure No.	SEEPL/QSI	P-10	
Sam	ple Collected I	By SEEPL	Represe	ntative	10 10 10 M				
Mot	th of Sampling	g March	2022						
				AMBIEN	T AIR LOCATION				
Loc	ation of ambie	nt air station	Sata	rda(Mahara	ishtra State)(M-A1)	÷			
Ave	rage Ambient'	Temperature (°C)	31.7	Average	Humidity (%)	67	Latitude	N15#43'0	1.3*
Ave	rage Wind Spe	ed (km/hr)	1.6	Average	Wind direction (De	g) 248	Longitude	E 73#46'0	0.2"
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (APM	- 411)		
Sr.	Date of	Demost No.	PARAMETERS						
No	Sampling	Report No.		PM10	PM <sub>2.5</sub>	SO2	NOx	CO	SPM
1.	03/03/2022	SEE/AR/03/2022	/0075	52.18	17.55	4.38	8.86	0.03	70.28
2.	07/03/2022	SEE/AR/03/2022	2/0226	35.83	15.39	4.74	<6.00	0.06	51,72
3.	10/03/2022	SEE/AR/03/2022	2/0326	50.46	22.08	4.77	8.91	0.05	73.00
4.	14/03/2022	SEE/AR/03/2022	2/0395	70.24	21.42	5.98	9.42	0.07	93.17
5.	17/03/2022	SEE/AR/03/2022	2/0452	65.57	15.72	5.35	< 6.00	0.08	84.47
6.	21/03/2022	SEE/AR/03/2022	2/0526	33.45	16.47	4.27	10.70	0.09	50.96
7	25/03/2022	SEE/AR/03/2022	2/0748	36.89	13.31	3.92	12.59	0.05	51.63
B	28/03/2022	SEE/AR/03/2022	2/0814	39.05	17.26	5.34	12.73	0.06	57.02
9	31/03/2022	SEE/AR/03/2022	2/0876	41.73	20.17	4.17	11.43	0.09	64.24
	NAA	QS Limits*		100	60	80	80	4	
		Units		µg/ m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>2</sup>	µg/m <sup>1</sup>
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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1)Akash Pattade. NDCDO 2)Aditya Naik Nandkumar Desai eep Sawant Analyzed by Reviewed by Authorized Signatory

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BRANCH OFF. 1 310, Dempo Towers, EDC Patto, Panal-403 001. Goz State, India (2): (0832) 3437048 / 2437164

#### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1149	15/07/2021	14/07/2022	

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

:

:

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



8-306/307, Plot No. 01, Patel Estate, Reis Magos, Verem, Alty, Old Beter Road, Banksz, Parvontin, Panaji-Goa-403 101. Goa State, India. @ \_ (0832) 2411322 / 2411323 \* E-mail | startstrgoa@sec@fmail.com Lab accredited by MoEF & CC Valid up to 03.11.2023 & Certified by 3SO 9001:2015 & ISO 45001 .2018

SHALLING SERVE LIFE

		AMB	IENT A	IR QUAL	ITY MONITORIN	IG REP	ORT			
Rep	ort Date	01/04/2	2022							
Name of Client M/s. Megawide C/o GMR Goa in				ion DMCC al Airport Limited						
Add	ress of Client	Mopa, G	0a							
Sam	pling Plan	SEEPL/	LD/FM	r- 54	Sampling Proced	ture No.	SEEPL/QSI	P-10		
San	ple Collected	By SEEPL F	eprese	ntative						
Month of Sampling March 2022										
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Ding	na(Mahara	shtra State)(M-A2)	1				
Ave	rage Ambient	Temperature (°C)	32.1	Average	Humidity (%)	68	Latitude	N 15946'	12.3"	
Ave	rage Wind Spe	ed (km/hr)	1.3	Average	Wind direction (Dep	g) 243	B Longitude	E 73º49'2	20.5"	
Instruments Used FPS(			APM-550),	RDS(APM-460) &G	PS (APN	(-411)				
Sr.	Date of	Depend Ma	1)	PARAMETERS						
No	Sampling Report No.		_	PM <sub>10</sub>	PM2.5	SO <sub>2</sub>	NOx	CO	SPM	
$\mathbf{L}$	03/03/2022	SEE/AR/03/2022	/0076	56.75	16.84	<3.00	10.39	0.06	73.82	
2	07/03/2022	SEE/AR/03/2022	/0227	66.05	21.62	4.82	11.17	0.08	90.48	
З,	10/03/2022	SEE/AR/03/2022	/0327	42.63	15.22	4.54	8.58	0.07	58.96	
4.	14/03/2022	SEE/AR/03/2022	/0396	76.50	27,45	4.20	10.61	0.05	105.2	
5.	17/03/2022	SEE/AR/03/2022	/0453	34.80	14.60	4,69	<6.00	0.03	50.02	
6,	21/03/2022	SEE/AR/03/2022	/0527	30,75	16.34	3.19	12.10	0.06	47.94	
7	25/03/2022	SEE/AR/03/2022	/0749	42.89	18.63	4.48	11.37	0.07	62.59	
8	28/03/2022	SEE/AR/03/2022	/0815	31.78	18.30	3.50	11.03	0.06	50.91	
9	31/03/2022	SEE/AR/03/2022	/0877	38.32	12.31	4.07	11.37	0.05	52.08	
	NAA	QS Limits*		100	60	80	80	4	-	
		Units		μg/ m <sup>3</sup>	µg/m³	µg/m <sup>3</sup>		mg/m <sup>3</sup>	µg/m	
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02		IS 5182( Part 10)	IS 5182 Part IV	

\*NATIONAL AMBIENT AIR STANDARDS (2009)

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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- : Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.
- : Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade 2)Aditya Naik Nandkumar Desai Anandeep Sawant Analyzed by Reviewed by Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Road No. 16, Kisan Negar Road, M.I.D.C. Wagle Industrial Area, There - 400 604, Maharashtra Slate, India. 👸 (91-22) 2543 3321 / 2543 3322 / 2543 3323 / 2543 3324 - E-mail progradskammerin com / pradekartig: Page 376 of 430

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO. 1461-DTD-2009)	LES-CCL/FF/MF/SC/1154	15/07/2021	14/07/2022	

#### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

#### CO METER

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



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SAVE WATER SAVE UPE

		AMB	IENT A	IR QUAL	ITY MONITORIN	IG R	EPC	RT		
Rep	ort Date	01/04/	2022							
Name of Client M/s. Megawide C/o GMR Goa in				ion DMCC al Airport Limited						
Add	iress of Client	Mopa, G	oa	11.2010/00/01/02						
San	pling Plan	SEEPL/	LD/FM	r- 54	Sampling Procee	iure N	١o.	SEEPL/QSI	P-10	
San	ple Collected	By SEEPL F	leprese	ntative						
Moi	nth of Samplin	g March 2	022							
				AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Neta	rde(Mahar	ashtra State)(M-A3	)				
Ave	rage Ambient	Temperature (°C)	31.9	Average	Humidity (%)	6	66	Latitude	N 150461	1.7"
Average Wind Speed (km/hr) 1.5		1.5	Average	Wind direction (De	g) 7	234	Longitude	E 73°50'4	8.0*	
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &G	PS (A	PM	- 411)		
Sr.	Date of	Report No.				PARA	ME'	TERS		
No	Sampling			PM <sub>10</sub>	PM2.5	SC	$)_2$	NOx	CO	SPM
1,	03/03/2022	SEE/AR/03/2022	/0077	75.10	24.62	5.1	5	12.35	80.0	103.6
2,	07/03/2022	SEE/AR/03/2022	/0228	47.08	11.52	4.5	8	8.97	0.05	61.07
3.	10/03/2022	SEE/AR/03/2022	/0328	61.56	23.41	3.6	7	8.31	0.03	85,76
4.	14/03/2022	SEE/AR/03/2022	/0397	63.22	26.41	5.6	55	11.75	0.08	96.35
5.	17/03/2022	SEE/AR/03/2022	/0454	73.02	36.09	4.3	10	<6.00	0.06	111.2
6.	21/03/2022	SEE/AR/03/2022	/0528	34.61	11.60	5.4	14	9.13	0.05	47.57
7	25/03/2022	SEE/AR/03/2022	/0750	\$2.86	19.21	7.4	17	<6.00	0,07	73.54
В	28/03/2022	SEE/AR/03/2022	/0816	41.35	22.25	5.6	57	14.74	0.05	66.51
9	31/03/2022	SEE/AR/03/2022	/0878	52.39	11.81	3.0	8	9.71	0.06	65.28
	NAA	QS Limits*		100	60	8	0	80	4	-
		Units		µg/ m <sup>3</sup>	µg/m³	µg/	m3	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-M	IS 5 (Part		IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 Part IV

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

Note : Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
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- : Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade 2)Aditya Naik 44 Analyzed by

NDESA Nandkumar Desai Reviewed by

Apendeep Sawant Authorized Signatory

HEAD OFF, & LAB : Plot No. A-85, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industral Area, Thane - 400 604, Maharashtra State, India. (2) (91-22) 2563 3321 / 2563 3322 / 2563 3323 / 2563 3324 • E-mail: progradekarenvko.com / postekar50; Page 378 of 430 Gazetted By Ministry of Environment, Forest & Clenate Change, Govt Of India, S. G. 857 (E)

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1719-DTI-2012)	LES-CCL/FF/MF/SC/1153	15/07/2021	14/07/2022

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration	1
01	UV	In House Calibration	

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

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

#### CO METER

:

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



B-300/307, Piot No. 81, Patel Estate, Reis Magos, Veren, Ato, Old Bellin Road, Bacdaz, Porvatin, Panaj-Goa-403 101. Goa State, India. (C) : (0832) 2411322 / 2411323 \* E-mail : startabges@mdiffmail.com Lab accredited by MoEF & CC Valid up to 03.11.2923 \* Certified by ISIO 0001:2016 & IBO 45001 :2018 SPINE LUPIDON SPINE CIPIE

		AMBIEN	NT AIR QUALITY	MONITORING I	REPORT		
Report No	),	SEE/AR/03/202	22/0329	Date of Is	ssue	17/03/202	2
Name of Client M/s. Megawide Cons C/o GMR Goa intern						1.0	
Address o	of Client	Mopa, Goa					
Sample Collected By SEEPL Represe			entative	ntative Environmental condition of Lab			
Date of S	ampling	10/03/2022	Т	emperature(°C)	28.3	Humidity (%)	65
Analysis 8	Started On	14/03/2022	A	nalysis Complete	d On	17/03/2022	
	- W- 1975		AMBIENT AIR I				
	f ambient air stati		oundary (Goa St				
nstrument	is Used		Vapour Sample	r Atmospheric Poll	ution		
Sr. No.	Para	ameters	Result	Unit		Meth	od
01.	Total VOC		<1.0	ppm	M	ethod 18	
: Te : Ti	st results relate o his certificate may	only to the sample t nly to the condition not be reproduced f the equipments us	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o his certificate may	nly to the condition not be reproduced	tested. prevailing at the in part, without t	time of sampling. he permission of	this laborate	ary.	
: Te : Ti	st results relate o nis certificate may ilibration details o	nly to the condition not be reproduced	tested. prevailing at the in part, without t sed in monitoring	time of sampling, he permission of and / or analysis	this laborate is back side	ary. e of analysis report	thep Sawant

HEAD OFF, & LAB / Piot No. A-95, Road No. 16, Koam Nagar Road, M LD C. Wagte Industrial Area, Thure - 400 604. Maharashtra State, India. (2) (91-22) 2983-3321 / 2583-3322 / 2583-3323 / 2583-3324 + E-mail: pro@sadekaretwire.com / psadekar5@g Page 380 of 430 Geoverned By Missery of Environment, Forest & Climate Change, Govt Of India, 3: O. 657 (E)

BRANCH OFF. : 310, Dempo Towers, EDC Patts, Panaj-403 001, Goa Stale, India Ø : (9832) 2437048 / 2437184

Organic	Vapour	Sample	er
---------	--------	--------	----

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



8-306/307, Piet No. 61, Patel Estala, Heix Magos, Venen, Alto, Old Belim Road, Bardez, Porvories, Panaj-Gos-403-161. Ges Sale, India. (C) : (0832) 24113227 0411323 \* E-mail : startobgoa@rod@natRoat Lab according by MoEF & CC Valid up to 03-11 2023 ★ Certified by ISO 9001 2015 & ISO 45001-2018 SAVE LINTER SAVE LINE

	AMBIENT AIR QUA	ALITY MONITORING	REPORT		
Report No.	SEE/AR/03/2022/0330	Date of I	ssue	17/03/202	2
Name of Client	M/s. Megawide Construction C/o GMR Goa international				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmental condition of Lab		
Date of Sampling	10/03/2022	Temperature(°C)	28.3	Humidity (%)	65
Analysis Started On	14/03/2022	Analysis Completed On		17/03/2022	

AMBIENT AIR LOCATION

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

 Sr. No.
 Parameters
 Result
 Unit
 Method

 01.
 Total VOC
 <1.0</td>
 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

Nandkumar Desai Reviewed by



Anappeep Sawant

Authorized Signatory

HEAD OFF, & LAB : Plot No. A-95, Road No. 16, Risan Nagar Road, MJ.D.C. Wagle Industrial Area, Trans. - 400 604, Maharashtta State, India. (2) : (81-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + E-mail: pre@padekarenviro.com / padekar5@p Page/382 of 430 Galattad By Ministry of Environment, Forest & Climate Change, God Chinete, B. C. 867 (E)

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

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		AM	BIENT AIR QUALIT	Y MONITORING	REPORT		
Report N	lo.	SEE/AR/03	/2022/0331	Date of Is	ssue	17/03/202	22
Name of	Client		vide Construction D loa international Airj				
Address	of Client	Mopa, Goa					
Sample Collected By SEEPL Represe		resentative	entative Environmental condition of La				
Date of S	Sampling	10/03/2022		Temperature(%C)	28.3	Humidity (%)	65
Analysis	Started On	14/03/2022	1	Analysis Complete	d On	17/03/2022	1
			AMBIENT AIR	LOCATION			
ocation (	of ambient air sta	tion She	mecheadvan Bound	lary (Goa State)			
nstrumen	nts Used		anic Vapour Sample				
			hemical Testing -				
Sr. No.	the second se	rameters	Result	Unit		Metho	od
01.	Total VOC		<1.0	ppm	Me	ethod 18	
: Te : T	his certificate ma	only to the condit ay not be reprodu	ole tested. ion prevailing at the ced in part, without s used in monitoring	the permission of	this laborator		
: Te : T	est results relate his certificate ma	only to the condit ay not be reprodu	ion prevailing at the ced in part, without	the permission of	this laborator		
: Te : T	est results relate his certificate ma	only to the condit ay not be reprodu	ion prevailing at the ced in part, without	the permission of	this laborator		
: Te : T	est results relate his certificate ma	only to the condit ay not be reprodu	ion prevailing at the ced in part, without	the permission of and / or analysis	this laborator		weller
: Tr : C	est results relate his certificate ma	only to the condit ay not be reprodu	ion prevailing at the ced in part, without s used in monitoring	the permission of and / or analysis	this laborator	of analysis report.	pulling beep Sawant

HEAD OFF, & LAB : Plot No. A-95, Road No. 16, Road No. 16, Road Nagar Road, MJ.D.C. Wagle Industrial Area, Thane - 400 804. Maharashtra Stale, India. (2): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 + 5-mail: progradekeenviro.com / psedeket/dgpPage-384 of 430 Gazetted By Ministry of Environment, Formit & Climate Change, God Of India; S. 0. 857 (E)

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



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Report	No.				R/03/2022/0332-0333, 0858-0859, 0818, 0817, 0498, 0850, 0759, 0499, 0851 Report Date 01/04/2022										
					e Construction DMCC International Airport Limited										
Addres	is of C	lient		Mopa, Goa											
Sampk	e Colle	ected By		SEEPL Re	presentati	ve.									
Sampli	ng Pla	m		SEEPLALD	FMT- 54		Sampling Proc	edure No.		SEEPL/Q	SP-10				
				Cher	nical Tes	ting -	ing - Atmospheric Pollution								
Sr. No	Kenort No.		Zo Sampling Location		No	Day Tim ise in d	B(A)		Night Tim bise in dB						
								Lmin	Lmax	1	Lmin	Lisax	Le		
1.		03/2022	10000000000	03/2022/0332	G-N1	1	Mopa Boundary	30.0	83.3		30.0	79.0	53.		
2.	-	3/2022		03/2022/0333	G-N2	1	Shemecheadvan Bound		72.3		30.1	73.3	51.		
3.	30/0	03/2022	SEE/AR/	03/2022/0858	G-N3	C	Nagzar	31.6	76.2	59.1	30.0	75.4	48.		
4,	30/6	03/2022	SEE/AR/	03/2022/0859	G-N4	R	Purva Casarvamem	30.0	73.9	48.7	30.0	63.3	38		
5.	29/0	03/2022	SEE/AR/	03/2022/0818	G-N5	R	Chandel	30.0	68.6	49.0	30.0	64.1	39		
6,	26/	03/2022	SEE/ARJ	03/2022/0759	G-NB	R	Khajne Amere Porscode	im 32.1	69.7	47.4	30.0	55.8	39		
7.	29/	03/2022	SEE/AR/	03/2022/0817	G-N7	R	Warkhand	30.4	65.4	48.5	30.0	58.9	37		
8.	20/	03/2022	SEE/AR/	03/2022/0498	G-N8	C	Rajvil Wada Torxem	30.0	74.1	58.6	30.0	61,3	46		
9.	29/	03/2022	SEE/AR/	03/2022/0850	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugv	em 30.0	72.8	58.2	33.2	72.3	47		
10.	26/	03/2022	SEE/AR/	03/2022/0759	M-N1	R	Satarda	30.0	67.8	46.5	30.0	59.7	37		
11,	20/	03/2022	SEE/AR/	03/2022/0499	M-N2	R	Dingna	30.0	70.3	44.2	30.0	53.3	35		
12.	29/	33/2022	SEE/AR/	03/2022/0851	M-N3	R	Netarde	30.0	69.4	49.1	30.0	53.5	38		
1.2				- Commercial											
1	<ul> <li>Noise Limits as per Schedu</li> </ul>			Environm	ent (P	and the state of the	in dB(A) Leq	/		1					
		Area Co	de Cat	egory of Area	xy of Area		Day Time	in abing bog	Night Time		-				
		(A)	and the second se	ustrial Area (1)	and performing the part of the		75		70						
		(B) (C)		nmercial Area ( idential Area ( F	and the second	-	65	_	55						
		(D)		nce Zone ( S )	·/	-	50				-				
>							d night time is reckoned in								
~					verage of	the le	vel of sound in decibels or	i scale A whic	h is relat	able to hur	nan heari	ng. A "dec	ibel" i		
1			noise is me Leo, denot		weightig	n in th	e measurement of noise a	nd correspon	is to fran	maney root	voces cha	matariatie	e of th		
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×				an of the noise I				0.0038320							
Not						for A	mbient Level Noise Monit	oring 2015.							
				ily to the sample v to the condition		a at th	e time of sampling			- 1					
							t the permission of this lab	oratory.	TUTON N			1			
							ig and / or analysis is back		sis repor	2		1	(B)		
	à	1					Nandkumar Desai	±(	-	Put	14	Arone	1		
		Gawas red by						131mg	12.3	5/		Henteep !			
100	ound	eu uy				Reviewed by			1	1	PAUL	horized S	ignat		

Gazeffed By Meletry of Environment, Forent & Glimate Change, Govt Of India, S. O. 857 (E)

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E-mail: sadakanaujrofficalitmail.com • Wahrlin : sona ouriskommitti com • City, 1146500484300805C, typ

### 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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SEVE WELEH SPIN: UP6

	ANALYSIS REPO	RT FOR WATER SAMPLE						
Report No.	SEE/03/2022/171	SEE/03/2022/171 Issue Date 14/03/2022						
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa							
Address of Client	Mopa, Goa							
Order / Reference	As per dated 07/03/2022	Environmental Condition of Lab	Temp * C	Humidity %				
			28	69				
Sampling point	WTP-Treated							
Sample details	Treated Water sample	Date of collection	07/03	v2022				
Sample Collected by	SEEPL Representative	Sample Received On	07/03	/2022				
Analysis Started On	07/03/2022	07/03/2022 Analysis Completed On				022 Analysis Completed On 14/03		/2022
Sample Container	Glass bottle	Glass bottle Sample Quantity 5000 ml						
Chemical Testing								

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pН	7.79	78	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.36	NTU	1.00	IS-3025 (Part 5)
3.	Taste	Agreeable		Not Specified	APHA( 23 <sup>rd</sup> Edition ) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23rdEdition ) 2120 B
5,	Odour	Agreeable	+2	Not Specified	APHA( 23rdEdition ) 2150 B
б.	Total Alkalinity	22.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	51.00	mg/lit	500.00	IS 3025 (Part 16)
8,	Chlorides as Cl -	16.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23rdEdition ) 4500 SPF
11.	Total Hardness as CaCO3	26.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/it.	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/航	0.50	Clause 6 of (\$ 3025 (Part 39) : 1991

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NDEP64 Nandkumar Desai Reviewed By



Anangeep Sawant Authorized Signatory

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

BRANCH OFF. 1 310, Dempo Towers, EDC Patto, Panaji-403-001, Goa State, India 🕐 : (0833) 2437048 / 2437164

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## Equipment Calibration Details

		S. 87		Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	<u></u>	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	

Report No.		SEE/03/2022/171			Date	14/03/2022
Orde	r / Reference	As per dated	07/03/2022	Samp	le Received On	07/03/2022
Analy	vsis Started On	07/03/2022		Analys	sis Completed On	14/03/2022
Name	e of Client	M/s. Megawi C/o GMR G		on DMCC al Airport Limited		
Cher	nical Testing					
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	5	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 20	3)
15.	Nitrate as NO <sub>3</sub>	<1.00	mg/lit	45.00	IS 3025 (Part 3/	4)
16.	Fluoride as F-	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23rdEdit	on) 5530-8,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23/=Edit	on) 4500 CN D
19,	Anionic Detergents	<0.10	mg/iit	Not Specified	APHA( 23//Edit	on) 5540 – C
letal	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23,	Calcium as Ca	7.21	mg/lit	Not Specified	APHA( 23#Edit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2	)
26,	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	1.91	mg/lit	Not Specified	APHA( 23"Edit	ion) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3120 B
29.	Mercury as Hg	<0.001	mg/iit	0.001	IS 3025 (Part 2	)
30.	Zinc as Zn	<0.01	mg/iit	5.00	IS 3025 (Part 2	)
31.	Sodium as Na	<1,00	ring/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23#Edit	ion ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2	)

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

Nandkumar Desai Reviewed By



## Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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	

Report No.	SEE/03/2022/171	Issue Date	14/03/2022
Order / Reference	As per dated 07/03/2022	Sample Received On	07/03/2022
Analysis Started On	07/03/2022	Analysis Completed On	14/03/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
35,	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>rd</sup> Edition ) 9221-G

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

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NDERGY Nandkumar Desai Reviewed By



Anapheep Sawant Authorized Signatory

## Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/022	2021/08/236	26/08/2021	26/08/2022	
02.	Hot Air Oven	Q/039	T2021/06/017	26/06/2021 26/06/20		
03.	U V Spectrophotometer	Q/0166	2	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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		ANALYS	IS REPORT	FOR WATER SAMP	PLE			
Repo	rt No.	SEE/03/2022/169	)	Issue Date	0	14/0	3/2022	
Name	of Client	M/s. Megawide C C/o GMR Goa In				1.11		
Addre	ess of Client	Mopa, Goa						
Order	/ Reference	As per dated 07/	03/2022 E	Environmental Condit	ion of Lab	Temp © C 28	Humidity % 69	
Samp	bling point	Borewell 1						
Samp	ole detaits	Ground Water		Date of collect	tion	07/0	3/2022	
Samp	e Collected by	SEEPL Represen	ntative	Sample Rece	ived On	07/0	3/2022	
Analy	sis Started On	07/03/2022		Analysis Con	pleted On	.14/0	3/2022	
Samp	e Container	Glass bottles		Sample Quar	stity	tity 5000 ml		
Chen	nical Testing				-			
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method			
1.	pН	7.41	5	6.5 - 8.5	IS 3025 (Pa	IS 3025 (Part 11)		
2	Turbidity	0.68	NTU	1.00	IS 3025 (Pa	art 5)		
3.	Taste	Agreeable		Not Specified	APHA( 23 <sup>rd</sup>	Edition ) 2160	) B	
4.	Color	<1.00	Hazen unit	Not Specified	APHA( 23/	Edition ) 2120	) B	
5.	Odour	Agreeable	*	Not Specified	APHA(23	Edition ) 2150	B	
6.	Total Alkalinity	60.00	mg/lit	200.00	IS 3025 (P	art 23)		
7.	Total Dissolved Solids	86.00	mg/lit	500.00	IS 3025 (P	art 16)		
8,	Chlorides as Cl	19.02	mg/lit	250.00	IS 3025 (P	art 32)		
9.	Sulphate as SO4	<5.00	mg/lit	200.00	1S 3025 (P	IS 3025 (Part 24)		
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23 <sup>r</sup>	Edition ) 4500	) S2F	
11,	Total Hardness as CaCC	60.00	mg/lit	200.00	IS 3025 (P	art 21)		
12.	Ammonia	<0.50	mg/lit.	0.50	IS- 3025 (F	Part 34)		
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 o	f IS 3025 (Par	t 39)	
			- 1 W 1 H 1		and the second se			

1. Shreya Harmalkar 2. Anisha Parab Analyzed by

NEDOY Nandkumar Desai Reviewed By



Anangeep Sawant Authorized Signatory

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

BRANCH OFF. : 310, Dempo Towers, EDC Patty, Panaj-403 001, Gon State, India Ø : (0832) 2437048 / 2437164

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo	rt No.	SEE/03/2022/169		Issue	Date	14/03/2022
Order	/ Reference	As per dated	07/03/2022	Samp	le Received On	07/03/2022
Analy	sis Started On	07/03/2022		Analy	sis Completed On	14/03/2022
Name	e of Client	M/s. Megawic C/o GMR Go		on DMCC al Airport Limited		
Chen	nical Testing			1	(	
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	5	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26	5)
15.	Nitrate as NO3	<1.00	mg/lit	45.00	IS 3025 (Part 3	4)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	on) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edit	ion) 5530-8,C
18,	Cyanide	<0.01	mg/lit	Not Specified	APHA( 23#Edit	ion) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23//Edit	ion) 5540 - C
letai	Analysis					
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2	)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	)
23.	Calcium as Ca	10.42	mg/lit	Not Specified	APHA( 23rdEdit	ion) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	)
25.	Iron as Fe	0.06	mg/lit	1.00	IS 3025 (Part 2	)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2	)
27.	Magnesium as Mg	8.25	mg/lit	Not Specified	APHA( 23/4Edi	tion) 3500Mg B
28.	Chromium as Cr	0.01	mg/it	Not Specified	APHA( 23 <sup>rd</sup> Edi	tion) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2	2)
30.	Zinc as Zn	0.10	mg/lit	5.00	IS 3025 (Part 2	2}
31.	Sodium as Na	5.00	mg/lit	Not Specified	APHA( 23 <sup>rd</sup> Edi	tion) 3120 B
32	Potassium as K	4.00	mg/lit	Not Specified	APHA( 23ªEd	tion ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05,	IS-3025 (Part 2	2)

1. Shreya Harmalkar Surger 2. Anisha Parab Analyzed by Nandkumar Desai Reviewed By



				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Report No.	SEE/03/2022/169	Issue Date	14/03/2022
Order / Reference	As per dated 07/03/2022	Sample Received On	07/03/2022
Analysis Started On	07/03/2022	Analysis Completed On	14/03/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

**Microbiological Parameters** 

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

Note: Test results related only to the sample tested.

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1. Shreya Harmalkar, 2. Anisha Parab Analyzed by

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Nandkumar Desai Reviewed By



Ananueep Sawant Authorized Signatory

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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Repo	rt No.	SEE/03/2022/170	Issue Date		14/03/	2022		
Name	of Client	M/s. Megawide C C/o GMR Goa in						
Addre	ss of Client	Mopa, Goa		and an and an				
Order	/ Reference	As per dated 07/	03/2022 E	Environmental Cond	ition of Lab	Temp <sup>o</sup> C 28	Humidity % 69	
Samp	ling point	Borewell No. 2						
Samp	le details	Ground Water		Date of colle	oction	07/03	/2022	
Samp	le Collected by	SEEPL Represen	itative	Sample Rec	eived On	07/03	/2022	
Analy	sis Started On	07/03/2022		Analysis Co	mpleted On	14/03	/2022	
Samp	le Container	Glass bottle + PV	/C Can	Sample Qua	antity	1000	ml + 4000ml	
Chen	nical Testing			1				
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	3	Method		
1,	pН	7,07	÷.	6.5 - 8.5	IS 3025 (Pa	IS 3025 (Part 11)		
2.	Turbidity	0.74	NTU	1.00	IS 3025 (Pi	art 5)		
3.	Taste	Agreeable	÷:	Not Specified	APHA(23th	Edition ) 2160	В	
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23*	Edition ) 2120	ion ) 2120 B	
5.	Odour	Agreeable	-	Not Specified	APHA(23%	Edition ) 2150	tion ) 2150 B	
6.	Total Alkalinity	76.00	mg/lit	200.00	IS 3025 (P	art 23)		
7.	Total Dissolved Solids	137.00	mg/lit	500.00	IS 3025 (P	art 16)		
8.	Chlorides as CI	21.02	mg/lit	250.00	IS 3025 (P	art 32)		
9.	Sulphate as SO4	<5.00	mg/lit	200.00	IS 3025 (P	IS 3025 (Part 24)		
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA( 23	Edition ) 4500	S <sup>2</sup> F	
11.	Total Hardness as CaCC	a 80.00	mg/lit	200.00	IS 3025 (P	art 21)		
12.	Ammonia	<0.50	mg/R	0.50	IS- 3025 (F	Part 34)		
13,	Mineral oil	<0.1	mg/lit	0.50	Clause 6 o	(1S 3025 (Part	39)	

2. Anisha Parab Analyzed by

ACHOD

Nandkumar Desai Reviewed By





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BRANCH OFF. : 310, Dempo Towers, EDC Parto, Panaji-403 001, Gos State, India @ : (0832) 2437048 / 2437184

		a		Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Repo	rt No.	SEE/03/2022/170		Issu	e Date	14/03/2022	
Orde	r / Reference	As per dated	07/03/2022	Sam	ple Received On	07/03/2022	
Analy	sis Started On	07/03/2022		Anał	ysis Completed On	14/03/2022	
Name	e of Client	M/s. Megawio C/o GMR Go		on DMCC al Airport Limited			
Cher	nical Testing			L In dealer bit			
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per 10500)		Method	
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 2	6)	
15.	Nitrate as NO3	<1.00	mg/lit	45.00	IS 3025 (Part 3	4}	
16.	Fluoride as F	<0.10	mg/lit	Not Specifier	d APHA( 23#Edit	ion) 4500 F D	
17.	Phenolic compound	<0.02	mg/Rt	Not Specifie	d APHA( 23"Edit	ion) 5530-B,C	
18.	Cyanide	<0.01	mg/lit	Not Specifie	d APHA( 23"Edit	ion) 4500 CN -D	
19.	Anionic Detergents	<0.10	mg/lit	Not Specified APHA( 23rdEdit		ion) 5540 – C	
Netal	Analysis						
20.	Aluminium as Al	<0.01	mg/lit	0.03 IS 3025 (P		)	
21.	Arsenic as As	<0.01	mg/lit	0.01 IS 3025 (Pa		t 2)	
22	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2	9	
23.	Calcium as Ca	15.23	mg/lit	Not Specifie	d APHA(23dEdi	tion) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2	2)	
25.	Iron as Fe	0.12	rng/lit	1.00	IS 3025 (Part 2	2)	
26.	Lead as Pb	<0.01	mg/冠	0.01	IS 3025 (Part 2	2)	
27.	Magnesium as Mg	10.23	mg/lit	Not Specifie	d APHA( 23#Ed	tion) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit	Not Specifie	d APHA( 23r/Edi	tion) 3120 B	
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part )	2)	
30.	Zinc as Zn	0.06	mg/lit	5.00	IS 3025 (Part )	2)	
31.	Sodium as Na	8.00	mg/lit	Not Specifie	d APHA( 23#Ed	ition ) 3120 B	
32.	Potassium as K	4.00	mg/lit	Not Specifie	id APHA(23≢Ed	ition ) 3120 B	
33.	Copper as Cu	<0.01	mg/lit	0.05	1S 3025 (Part )	2)	

1. Shreya Harmalkar, Julya 2. Anisha Parab Analyzed by Nandkumar Desai Reviewed By



Anerideep Sawant Authorized Signatory

		a 87 al		Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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

Report No.	SEE/03/2022/170	Issue Date	14/03/2022
Order / Reference	As per dated 07/03/2022	Sample Received On	07/03/2022
Analysis Started On	07/03/2022	Analysis Completed On	14/03/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23 <sup>st</sup> Edition ) 9221-8
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested. : This certificate may not be reproduced in part, without the permission of this laboratory. : Celibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

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NDEPA Nandkumar Desai Reviewed By



Aperideep Sawant

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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 REPOR	RT FOR	WATER SAMPLE			
Report No.	SEE/03/2022/164		Issue Date	1	11/03/	2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 07/03/2022	Enviro	Environmental Condition of Lab		0 C	Humidity %
Older / Relevence	Ha per baleo unualzuzz	CHAILO			1	69
Sampling point	R.R. Canteen					
Sample details	Drinking Water		Date of collection	07/03/2022		2022
Sample Collected by	SEEPL Representative		Sample Received On	(	07/03/	2022
Analysis Started On	07/03/2022		Analysis Completed On		11/03/	2022
Sample Container	Glass bottle		Sample Quantity	1	1000 ml	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23=Edition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23redition ) 9221-G

Note: Test results related only to the sample tested.

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NDEDG

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	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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SPINE LUPITER SPACE UPE

	ANALYSIS REPOR	RT FOR WATER SA	MPLE		
Report No.	SEE/03/2022/165	Issue Date	8	11/03	3/2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated . 07/03/2022.	Environmental Cor	vironmental Condition of Lab		Humidity %
Order / Relefence	Pis per dated. Officialization	CONTROLLINGUED CON			69
Sampling point	L.S.C Colony				
Sample details	Drinking Water	Date of co	Date of collection		3/2022
Sample Collected by	SEEPL Representative	Sample Re	eceived On	07/0	3/2022
Analysis Started On	07/03/2022	Analysis C	completed On	11/0	3/2022
Sample Container	Glass bottle	Sample Q	uantity	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( 23redition ) 9221-B
2.	E.coli at 44.5ºC for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23 <sup>re</sup> Edition ) 9221-G

Note: Test results related only to the sample tested.

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_				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Name Equipment Id	Certificate No.	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 REPOR	RT FOR	WATER SAMPLE			
Report No.	SEE/03/2022/166		Issue Date		11/03/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 07/03/2022	Environmental Condition of Lab			9 <sup>0</sup> C 8	Humidity % 69
Sampling point	A.T.C Tower				*.)	
Sample details	Drinking Water		Date of collection		07/03/2022	
Sample Collected by	SEEPL Representative		Sample Received On		07/03/	2022
Analysis Started On	07/03/2022		Analysis Completed On		11/03/	2022
Sample Container	Glass bottle		Sample Quantity		1000 mł	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23redition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23//Edition ) 9221-G

Note: Test results related only to the sample tested.

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			1	Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Certificate No. Calibration Date Nex	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 REPO	RT FOR WATER SAMPLE		
Report No.	SEE/03/2022/167	Issue Date	11/03	3/2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa			
Address of Client	Mopa, Goa			
Order / Reference	As per dated 07/03/2022	Environmental Condition of Lab	Temp ® C 28	Humidity % 69
Sampling point	V.N.C Colony			
Sample details	Drinking Water	Date of collection	07/0	3/2022
Sample Collected by	SEEPL Representative	Sample Received On	07/0	3/2022
Analysis Started On	07/03/2022	Analysis Completed On	11/0	3/2022
Sample Container	Glass bottle	Sample Quantity	1000	ml

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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_	Sr. Equipment Name	Equipment Id		Calibration Details		
			Certificate No.	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 REPOR	RT FOR WATER SAMPLE					
Report No.	SEE/03/2022/168	Issue Date		11/03/	2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As pay dated 07/03/2022	As per dated 07/03/2022 Environmental Condition of Lab		р <sup>0</sup> С	Humidity %		
Order / Relevence	We per dated or wareber			8	69		
Sampling point	K.M.V Colony						
Sample details	Drinking Water	Date of collection	07/03/2022		2022		
Sample Collected by	SEEPL Representative	Sample Received On	07/03/2022		2022		
Analysis Started On	07/03/2022	Analysis Completed On	11/03		2022		
Sample Container	Glass bottle	Sample Quantity		1000 ml			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	MPN	Absent	MPNIndex/100ml	Not Specified	APHA( 23rdEdition ) 9221-8
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA( 23redition ) 9221-G

Note: Test results related only to the sample tested.

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	Sr. Equipment Name No.	Equipment Id		Calibration Details		
			Certificate No.	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 REPO	ORT FOR I	WATER SAMPLE				
Report No.	SEE/03/2022/162		Issue Date	11/03/2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	1000 0000 000000 P		Provide and the second second		Humidity %		
	As per dated 07/03/2022	Environmental Condition of Lab		28	69		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10			
Sampling point	STP (KMV)						
Sample details	Iniet Water		Date of collection	07/03/2022			
Sample Collected by	SEEPL Representative		Sample Received On	07/03/2022			
Analysis Started On	07/03/2022		Analysis Completed On	11/03/2022			
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml			

Chemical Parameters	
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Sr. No.	Parameters	Results	Unit	Method	
1.	pН	6.73		APHA( 23stEdition ) 4500 H+-B	
2.	Chemical Oxygen Demand (COD)	368.00	mg/lit	APHA( 23 <sup>rd</sup> Edition ) 5220-B	
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	114.24	mg/lit	IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	87.00	mg/iit	APHA( 23rdEdition ) 2540-D	
5.	Oil & Grease (O & G)	7.40	mg/lit	APHA( 23#Edition ) 5520-O &G	

Note: Test results related only to the sample tested.

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Nandkumar Desai Reviewed By

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	Sr. Equipment Name No.	Equipment Id	an an an an an an ann an an an an an an	Calibration Details		
			Certificate No.	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	



B-306/307, Piol Na: 01, Patel Estate, Reis Magos, Venen, Alto, Old Balim Road, Bardez, Porvolm, Panaji Gos-405-101. Gos State, India. (2) 2 (0832) 2411322 / 2411323 \* E-inali : startabgos@mail.com Lali: accredited by MoEF & CC Valid up to 03.11.2023 \* Certified by ISO 9001.2015 & IBO 45001 :2018 SPINE LUPIC SPINE LIPE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/03/2022/163		Issue Date	11/03/2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 07/03/2022	Emiliar	Environmental Condition of Lab		Humidity 5		
	As per dated 07/05/20/22	Christian Contaition of Con		28	69		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10			
Sampling point	STP (KMV)						
Sample details	Outlet Water		Date of collection	07/03/2	022		
Sample Collected by	SEEPL Representative		Sample Received On	07/03/2022			
Analysis Started On	07/03/2022		Analysis Completed On	11/03/2022			
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 m	1000 ml + 1000ml		

**Chemical Parameters** 

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	6.93		5.5 - 9.0	APHA( 23redition ) 4500 H+-B
2,	Chemical Oxygen Demand (COD)	32.00	mg/lit	50.00	APHA( 23#Edition ) 5220-8
З.	Biochemical Oxygen Demand (27ºC 3 day)(800)	5.20	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	16.00	mg/lit	20.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA( 23 <sup>rd</sup> Edition ) 5520-0 &G
6,	Ammonia	2.24	mg/lit	5.00	APHA( 23rdEdition ) 4500 NH38 C
7.	Total Nitrogen ( as N)	6.80	mg/lit	10.00	APHA( 23rdEdition ) 4500 N-B

#### Microbiological Parameters

Faecal coliforms at 44.5°C MPN 8. 26 100 APHA (23rdEdition) 9221-E for 24 hrs. Index/100ml

Note: Test results related only to the sample tested.

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BRANCH OFF. | 310, Dempo Towers, EDC Patts, Panaj-403 001. Goa Stale, India (2) : (0832) 2437048 / 2437164

		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	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	



8-366/307, Plot No. 61, Patril Extate, Reis Magos, Verem, Alto, Old Bellin Road, Bardisz, Porvatm, Paraji-Goa-403 101. Geo Sinte, India. (1): (0602) 24113227 2411323+ E-mail: starlobgoodgred#mail.com Lab accordited by MoEF & CC Valid up to 03.11.2023 + Certified by ISO 1001-2015 & ISO 45001 (2018) SPINE ELEPTRON SPINE LIPE

ANALYSIS REPO	ORT FOR	WATER SAMPLE		
SEE/03/2022/160		Issue Date	11/03/2022	
		imited		
Mopa, Goa				
A	-			Humidity %
As per dated 07/03/2022	Environmental Condition of Lab		28	69
SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
STP				
Inlet Water		Date of collection	07/03/2022	
SEEPL Representative		Sample Received On	07/03/2022	
07/03/2022		Analysis Completed On	11/03/2022	
Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	
	SEE/03/2022/160         M/s. Megawide Constructio         C/o GMR Goa International         Mopa, Goa         As per dated 07/03/2022         SEEPL/LD/FMT- 54         STP         Inlet Water         SEEPL Representative         07/03/2022	SEE/03/2022/160         M/s. Megawide Construction DMCC C/o GMR Goa International Airport L         Mopa, Goa         As per dated 07/03/2022         SEEPL/LD/FMT- 54         STP         Inlet Water         SEEPL Representative         07/03/2022	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited         Mopa, Goa         As per dated 07/03/2022       Environmental Condition of Lab         SEEPL/LD/FMT- 54       Sampling Procedure No.         STP       Inlet Water       Date of collection         SEEPL Representative       Sample Received On         07/03/2022       Analysis Completed On	SEE/03/2022/160       Issue Date       11/03/200         M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited       International Airport Limited         Mopa, Goa       Environmental Condition of Lab       Temp ° C 28         As per dated 07/03/2022       Environmental Condition of Lab       Temp ° C 28         SEEPL/LD/FMT- 54       Sampling Procedure No.       SEEPL/QSP         STP       Iniet Water       Date of collection       07/03/2022         SEEPL Representative       Sample Received On       07/03/2022         07/03/2022       Analysis Completed On       11/03/2022

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method	
1.	pH	6.23		APHA(23rdEdition) 4500 H+-B	
2.	Chemical Oxygen Demand (COD)	1520.00	mg/lit	APHA( 23redition ) 5220-B	
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	500.00	mg/lit	lit IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	241.00	mg/it	APHA( 23rdEdition ) 2540-D	
5.	Oil & Grease (O & G)	16.20	mg/R	APHA( 23//Edition ) 5520-0 &G	

Note: Test results related only to the sample tested.

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

Mugdha Gawade Analyzed By

NER

Nandkumar Desai Reviewed By



Agandeep Sawant Authorized Signatory

HEAD OFF, & LAB : Plot No. A-95, Road No. 16, Risan Nagar Road, MJ.D.C. Wagle Industrial Area, Thank - 400 604. Maharashtra State, India. (2): (91-22) 2583 3321 / 2583 3322 / 2583 3322 / 2583 3322 / 2583 3323 / 2583 3323 / 2583 3324 + E-mail : predisadelaronviro.com / pseulekartid), Page 420 of 430

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

BRANCH OFF. 1310, Demps Tevens, EDC Patter, Panaji 403 001: Qua Bana, India (2): (0832) 24370487 2437164

 	Equipment Name	Equipment Id	1	Calibration Details		
Sr. No.			Certificate No.	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	



8-305/307, Plot No. 51, Field Estate, Rein Magos, Venem, Alto, Old Bellim Road, Benler, Parvortin, Parvet Grav403 101. Goo State, India. 10 - (0832) 2411322 / 2411329 • E-mail : starbabgoo@radiffmail.com Lab accedited by MoEF & CC Velid up to 63.11.2023 \* Certified by 180 9001/2015 & ISO 45001 :2018

SHAF WRITER

SINE URE

	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/03/2022/161	Issue Date	11/03/20	11/03/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited		
Address of Client	Mopa, Goa				
0.000	An and dated 020000000	Environmental Condition of Lab Sampling Procedure No.		Temp ° C	Humidity %
Order / Reference	As per dated 07/03/2022			28	69
Sampling Plan	SEEPL/LD/FMT- 54			SEEPL/QSP-10	
Sampling point	STP				
Sample details	Outlet Water Da		Date of collection	07/03/2022	
Sample Collected by	SEEPL Representative		Sample Received On	07/03/2022	
Analysis Started On	07/03/2022		Analysis Completed On	11/03/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Chem	cal	Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	рН	6.70		5.5 - 9.0	APHA( 23rdEdition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	172.00	mg/lit	250.00	APHA( 23rtEdition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	26.04	mg/iit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	64.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	5.00	mg/lit	10.00	APHA( 23ªEdition ) 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.

Muqdha Gawade Analyzed By

NDEROY

Nandkumar Desal Reviewed By



Anandeep Sawant

Authorized Signatory

HEAD OFF, & LAB : Plot No. 4-95, Road No. 16, Risan Nagar Road, M.L.D.C. Wagle Industrial Area, Thane - 400 504. Maharashtra State, India (b): (91-22) 2683 3321 / 2683 3322 / 2683 3322 / 2683 3334 • E-minil: pro@nodekterometro.com / poodekar5.g Page 422 of 430

Gazettad By Ministry of Environment, Forest & Clinate Change, Boxt Of India, B. O. 457 (E)

310. Despit Treeve. BDC Patter Panagi 403 001. Gua State, India (2. 10832) 2437048 1 3437164 BRANCH OFF

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	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	



ap.

Half Yearly EC Compliance Report (October 2021 to March 2022)

#### <u>ANNEXURE – 3</u>

#### **ENVIRONMENTAL EXPENDITURE DURING FY 2021-22**

S. N.	Particulars	EXPENSES During FY 2021 – 2022 (in INR Crore)	
1.	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States)	0.377	
2.	Dust suppression through tankers & chemical dust suppressants	0.476	
3.	Water sprinkling tankers and fog / mist canons for dust suppression	0.316	
4.	Periodical Fund deposit to GSBB for compensatory tree afforestation	0.2	
5.	Trees cutting, stacking & enumeration for approach CAT-1 lightning	0.07	
6.	Translocation of trees within the site with maintenance	0.118	
7.	Top soil preservation measures	1.211	
8.	Labour colony - STP (225 KLD)	0.102	
9.	Labour Colony – STP (50 KLD)	0.057	
10.	Occupational health surveillance	0.035	
11.	CTE application fees	0.02	
12.	CTO application fees	- 0.02	
13.	Environment Management Cell set up	1.240	
14.	Monsoon protection works	0.845	
15.	Waste Management (Alterz Energy)	0.069	
18.	Vacuum Tanker for (Portable toilets at site)	0.038	
19.	Environmental Compliance Monitoring by NEERI	0.390	
20.	Installation and commissioning of Continuous Ambient Air Quality Monitoring system (CAAQMS)	0.848	
21.	Aviation Noise Monitoring Terminal units (NMT)	1.578	
22.	Digital Online Display unit	0.058	
	TOTAL	8.068	







B.

#### <u>ANNEXURE – 4</u>

#### LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT AS OF 31<sup>st</sup> MARCH 2022

S.N.	Statutory	Da	te	Statutory	Permit enclosed as	
	Permits/Approval	Issued	Validity	Authority		
1.	PESO Approval for 25 KL LDO Tank for Hot Mix Plant - 3	03/02/2022	-	PESO	Appendix-1	
2.	Initial Approval for HSD Tank	25/02/2022	-	PESO	Appendix-2	



Appendix-1: PESO Approval for KL LDO Tank for Hot Mix Plant - 3

भारत सरकार भारत सरकार Government of India वाणिज्य और उद्योग मंत्रालय Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) Petroleum & Explosives Safety Organisation (PESO) Petroleum & Explosives Safety Organisation (PESO) ए-1 और ए-2 विंग, पाँचवा तल, केंद्रीय कार्यालय परिसर, 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 : 03/02/2022

19812 CITL 1996

Only Approval ( no Licence) फ़ीस रु. /Fees : Rs. 2000 /- (अनुमोदन) Approval for permission संख्या /No. : A/P/WC/GA/15/15 (P528493)

रोवा में /To.

 M/s. MEGAWIDE CONSTRUCTION DMCC,
 MOPA GREEN FIELD AIRPORT, SURVEY NOS.21/5,21/6,21/, CHANDEL,
 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 उपर्युक्त विषय से संबंधित पत्र संख्या OIN992264 दिनोक b>03/02/2022 का संदर्भ ग्रहण करें । Please refer to your letter No OIN992264 dated 03/02/2022.

पेट्रोलियम नियम, 2002 के अंतर्गत नियम 140 के अधिन आपके Survey No, 21/5,21/6,21/7,21/8,21/8,22/17,22/18 and 22/19, MOPA GREEN FIELD AIRPORT, CHANDEL, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 स्थित परिसर में 25 KL किलोलीटर पेट्रोलियम वर्ग "ग" के अंडारण संबंधी सूचना नोट की गई है. संबंधित आरेखण की प्रतिलिपि इस कार्यालय की मोहर के साथ संलग्न है. कुपया नोट करें कि अगर पेट्रोलियम वर्ग "ग" Class C का किशी एक समय भंडारण 45 KL किलोलीटर से अधिक होता है तो आपको इस कार्यालय से अनुइप्ति प्राप्त करनी होगी. आपके इन्स्टालेशन की लागु पेट्रोलियम नियम, 2002 के अध्याय VI में किए गए प्रावधानों का कडाई से पालन करें.

Your intimation under Rule 140 of Petroleum Rules 2002 regarding storage of 25 KL of Class C in your factory premises at Survey No, 21/5,21/6,21/7,21/8,21/8,22/17,22/18 and 22/19, MOPA GREEN FIELD AIRPORT, CHANDEL, 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 प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्यभ विधियों से छूट नही देती है । This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

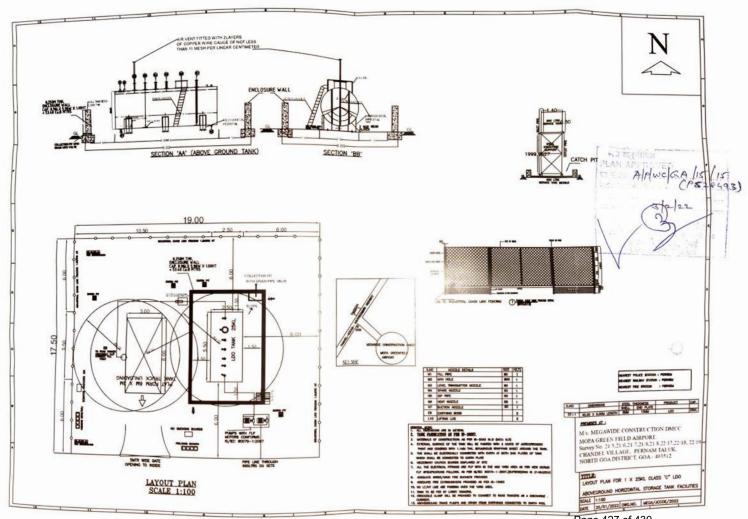
Yours faithfully,

(पू. एस. भांगे) (UJWAL SHANKAR BHANGE)) विस्फोटक निपंत्रक Controller of Explosives कृते संयुक्त मुख्य विस्फोटक निपंत्रक For Jt. Chief Controller of Explosives नवी मुंबई (महा.)/Mumbai

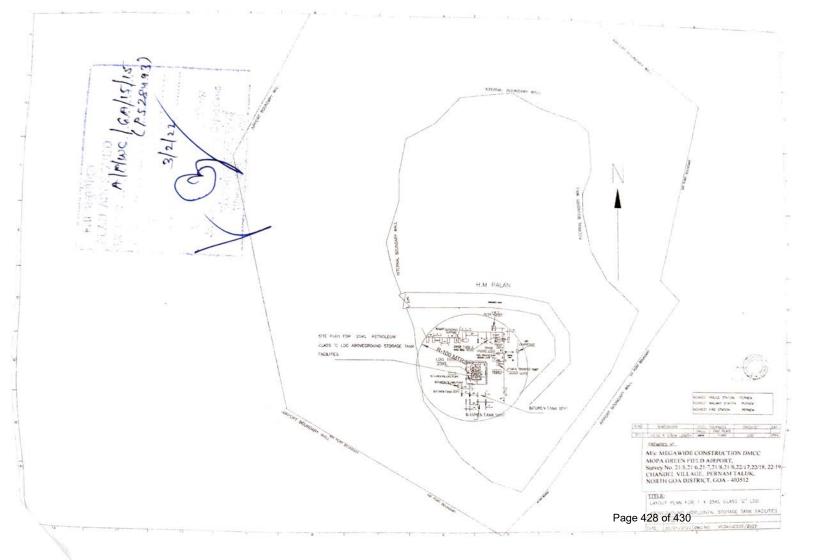
(अधिक जानकारी जैसे आवेदन की स्थिति, युल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें) (For more information regarding status,fees and other details please visit our website http://peso.gov.in) Note:-This is system generated document does not require signature.

> Digitally signed by SHRI UJWAL S BHANGE Reason: Approval No. - A/P/WC/GA/15/15 Location:West Circle [P528493] Date 2022.02.03.05:10:18 +05:30

> > Page 426 of 430



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#### Appendix-2: Initial Approval for HSD Tank



भारत सरकार /Government of India वािण और उ0ोग मंTालय/ Ministry of Commerce & Industry पेटोिलयम तथा िव टक स**ुर ा स**ंगठन (पेसो)/Petroleum & Explosives Safety Organisation (PESO) ए-1 और ए-2 िवंग, प**ाँचवा तल, क5ीय काय**ालय प रसर, सी.बी.डी. बेलाप**ुर, नवी म**ुंबई (महा.)/A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.), Mumbai - 400614

> इमेल/Email :- jtccemumbai@explosives.gov.in दूरभाष/Phone,फै / Fax :- 022 - 27575946,27573881

सं%ा /No : **A/P/SC/KA/15/275 (P529504)** 

िदनांक /Dated : **25-02-2022** 

सेवा म

/To,

M/s. GMR GOA INTERNATIONAL AIRPORT LTD MOPA AIRPORT PROJECT SITE , VIA DADACHIWADI ROAD , NAGZER , PERNEM TALUK , GOA – 403512.

िवषय

/Sub : Survey No. 114/1, 114/4, 115/1, 115/2, 117/1, 117/4, MOPA AIRPORT PROJECT SITE, VIA DADACHIWADI ROAD, NAGZER, PERNEM TALUK, GOA – 403512. म 3तािवत पेट ोिलयम वग´ B अध4ठापन के अनुमोदन के स म I Proposed Petroleum Storage Class B Installation at Survey No. 114/1, 114/4, 115/1, 115/2, 117/1, 117/4, Mopa Airport Project Site, Via Dadachiwadi Road, Nagzer, Pernem Taluk, Goa – 403512 Approval Regarding.

महोदय

/Sir(s), कृ पया आपके पा मांक OIN990589 िदनांक 02/02/2022 का अवलोकन कर । Please refer to your letter No. OIN990589 dated 02/02/2022 Drawing(s) nos. HSD/GAP/01 dated 10/01/2022, HSD/GAP/01dated 10/01/2022, अनुमोिदत िकया जाता है तथा येक आरेखण की एक ित िविधवत प**्रांकित कर लौटाई जा रही है**।

The Drawing(s) nos. **HSD/GAP/01 dated 10/01/2022**, **HSD/GAP/01** dated **10/01/2022**, showing the site and layout etc. of the specified installation is/are approved and one copy of the same is returned herewith in token of approval.

अि म कारवाई हेतु इस कायालय को ेिषत कर ।

The following documents which are necessary for the grant of a licence in Form XV under Petroleum Rules, 2002 for the subject installation may please be submitted to this office for further action in the matter.

1. ∨प IX (संल∨़)म िविधवत भरा 5आ एवं ह3ता रत आवेदन।

An Applicatioin in Form IX (enclosed) duly filled in and signed.

- 2. पेटोेिलयम िनयम 2002 के तहत ऑनलाइन आवेदन पोटल पर उपल ई-भूगतान स्िवधा के मा म से अन्∨ि™ হা্র ∨ 5000/-

( ित वष – अिधकतम १० वष तक) ऑनलाइन जमा िकया जाना है । A license fee of Rs. 5000/- (per year - maximum upto 10 years) to be submitted online through e-payment facility available on online application portal under petroleum Rules, 2002.

- ू ि ंट या सीएडी (CAD) ि ंट म चार ितयाँ। 3. अन**ुमो**िदत लान की Four copies of the approved plans in blue print or cad print incorporating the conditions, of approval if any, without any ink corrections, duly signed by the authorised signatory
- 4. इस संंगठन<sup>ं</sup> ारा मा) ता ा™ सं म Dिiदारा उनके ह™ा र के ™ प सिहत जारी पेटोिलयम िनयम 2002 के अंतगत िनयम

130 और 126 म आवकक िनध रत ∨प (संल∨-) म सेेी और टे™ माण-पा।

Safety and Test Certificate required under rule 130 and 126 of the Petroleum Rules, 2002 in the prescribed proforma (copies enclosed) issued by Competent person.recognised by this organisation bearing his signature stamp.

5. पेटोलियम िनयम के िनयम 144 के अंतगत िजला ािधकारी ;दारा जारी 'अनापिK माण-पा' की म**ूल**ित के साथ उनके ंदारा

िविधवत ह™ा रत एवं कायालय की मोहर लगा 5आ साईट ान।

Original copy of 'No Objection Certificate' from the District Authority under rule 144 of petorleum rules together with site plan duly endorsed by him with his office seal thereon.

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

भवदीय /Yours faithfully.

(यु. एस. भंगे) (UJWAL SHANKAR BHANGE ) / Controller of Explosives कृ ते संयु मु%िव ोटक िनयं ाक For Jt. Chief Controller of Explosives चे ैं/ Mumbai

#### Note:-This is system generated document does not require signature.

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