

To,

GMR

Survey No. 381/3, Mathura One 1st Floor, NH 17, Porvorim Goa, India - 403 501 CIN U63030GA2016PLC013017 T +91 832 240 8400 F +91 832 240 8450

W www.gmrgroup.in

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

Regional Office (SZ), 4th Floor, E&F Wing, Kendriya Sadan, Koramangala, Bengaluru - 560034 Date: 24th May 2021

Ref: GGIAL/MoEF&CC-EC/2021-2022/0688

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 2020 to March 2021.

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

Ref:

- 1. Original EC vide letter No. F.No.10-29/2011-IA.III dated 28th October 2015
- 2. Amendment in EC for Change in Project Proponent dated 22nd February 2018
- 3. NGT Order dated 21st August 2018
- 4. H'ble Supreme Court of India's Order dated 16th January 2020
- 5. Addendum to Original EC dated 13th March 2020

Dear Sir,

With reference to the subject & reference mentioned above, we are herewith submitting the Half Yearly Environmental Clearance (EC) Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from October 2020 to March 2021. This project is under development phase.

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

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

Thanking you,

You Sincerely,

for GNR Goa International Airport Limited

R V Sheshan

Chief Executive Officer

Enclosure: As above

Copy for kind information to:

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

Goa

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: October 2020 to March 2021)



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

With reference to

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

Supreme Court of India Order dated 16.01.2020

Addendum to EC Conditions dated 13.03.2020



GMR GOA International Airport Limited

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



Point-wise compliance

	Point-wise compliance				
S. No.	Reference No.	Conditions	Compliance		
Conditio	ons of EC dat	ed 28/10/2015			
1.	4 (A) (i)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Renewal of 'Consent to Establish' 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.	Noted. It will be addressed in due course in collaboration with Govt. of Goa (GoG)		
3.	4 (A) (iii)	The approach and exit roads to the Airport shall be got approved from the NHAI and should be according to IRC norms.	Noted. It will be addressed in due course in collaboration with GoG.		
4.	4 (A) (iv)	A perusal of the Topo sheet superimposed on the runway area indicates that the extreme end of the runway is covering the drainage area partly. The drainage area which is under the runway shall be channelized. The area between the parallel taxiway and runway shall be handled carefully to drain the water from the area in the outfall 2.	Complied. Included in the engineering design vetted by IIT Mumbai. Compliance shall be ensured during construction phase. Earth work is in progress.		



S. No.	Reference No.	Conditions	Compliance
5.	4 (A) (v)	The PP shall submit the site clearance certificate from Directorate General of Civil Aviation (DGCA), before commencement of work at the project site.	Submitted and Complied. Refer Annexure – 4 .
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. Currently, we are in the construction phase and hence infrastructure is being built.
7.	4 (A) (vii)	The solid waste generated shall be properly collected, segregated and disposed according to the provisions of Solid Waste (Management and Handling) Rules, 2000. The project proponent shall make provisions for drinking water at convenient places for passengers and also at the cafeterias as to reduce generation of solid wastes including PET bottles.	Noted. Compliance shall be ensured. Project is in construction phase and necessary infrastructure to ensure compliance with given conditions are being built.
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	Being Complied. As per the revised categorisation of DG sets by CPCB, the stand alone DG sets having capacity less than 1000 KVA do not require 'consent to operate' by GSPCB. Project is in construction phase.



S. No.	Reference No.	Conditions	Compliance
			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.
			Compliance shall also be ensured during operational phase of airport as per 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.
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 Annexure-4 .
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.



S. No.	Reference No.	Conditions	Compliance
13.	4 (A) (xiii)	The wastewater from hangers shall be tested for presence of heavy metals, if any, and shall be treated in STP. The treated wastewater shall be used for gardening/ flushing.	Noted. Compliance shall be ensured during operational phase of airport. Currently, we are in the construction phase and infrastructure is being built.
14.	4 (A) (xiv)	Rain water harvesting shall be provided to recharge the ground water.	Noted. Compliance shall 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 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 Example of the EMP shall be complied with in letter and spirit.	Noted. Compliance shall be ensured.



S. No.	Reference No.	Conditions	Compliance
		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.	Compliance to the mitigation measures in Matrix Format is attached as Annexure - 1 .
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	Noted. Compliance 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 the boundary shall be restricted to the permissible levels to comply with the prevalent regulations.	Noted. Compliance shall be ensured. Currently, project is in construction phase and ambient noise levels monitoring are being conducted by MoEF&CC approved Environmental Laboratory. Noise level monitoring reports are enclosed as Annexure-2 .
20.	4 (A) (xx)	The location of monitoring stations and monitoring of noise level during day and night shall be in accordance with the CPCB guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 th June, 2008.	Noted. Compliance shall be ensured during operational phase.
21.	4 (A) (xxi)	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Being Complied. Waste Management Plan is prepared and being implemented.
22.	4 (A) (xxii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the SPCB.	Being Complied. Hazardous waste is being 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 was	Noted. EC had been obtained from MoEF&CC before starting the



S. No.	Reference No.	Conditions	Compliance
		found that construction of the project has been started without obtaining environmental clearance.	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.	
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.
		b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.	Complied.
		c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Complied.
		d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/ or shareholders or stakeholders at large.	Complied.
B.	GENERAL C	ONDITIONS:- EC dated 28/10/2015	
26.	4 (B) (i)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care etc.	Being Complied. Labor colony has been established within project site with all necessary infrastructure and facilities.



S. No.	Reference No.	Conditions	Compliance
		The housing may be in the form of temporary structures to be removed after the completion of the project	
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. Top soil excavated is being stored at designated locations within the site for future use.
29.	4 (B) (iv)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Being Complied. Entire quantity of excavated earth work will be reused for filling & levelling within the site premises.
30,	4 (B) (v)	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environment (Protection Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required clearance from Chief Controller of Explosives shall be taken.	Being Complied. Low Sulphur diesel is being used. Clearance from Chief Controller of Explosives has been obtained for temporary storage of Low Sulphur Diesel during construction phase.
31.	4 (B) (vi)	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Being Complied. 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.



S. No.	Reference No.	Conditions	Compliance
			All construction vehicles carry Pollution Under Check (PUC) certificate.
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003.	Being Complied. Fly ash is being used in
33.	4 (B) (viii)	Ready mixed concrete must be used in building construction.	Being Complied.
34,	4 (B) (ix)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Being Complied. Considered in the engineering design, vetted by IIT Mumbai. Earth work is in progress.
35.	4 (B) (x)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	
36.	4 (B) (xi)	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Compliance shall be ensured. Requirement is considered in the Design.
37.	4 (B) (xii)	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Compliance shall be ensured. Requirement is considered in the Design.
38.	4 (B) (xiii)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Compliance shall be ensured. Requirement is considered in the Design.
39,	4 (B) (xiv)	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Compliance shall be ensured. Requirement is considered in the Design.



S. No.	Reference No.	Conditions	Compliance
40.	4 (B) (xv)	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Noted. Compliance shall be ensured.
41.	4 (B) (xvi)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Noted. Compliance shall be ensured in consultation with GoG.
42.	4 (B) (xvii)	The construction of the structures shall be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and central rules and regulations.	Noted. Compliance shall be ensured. Construction License has been obtained from MADA.
43,	4 (B) (xviii)	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	Being Complied. Statutory approvals of approved quarries from where construction materials are being sourced, are enclosed in Annexure – 4 .
44.	4 (B) (xix)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Being Complied.
45.	4 (B) (xx)	Full support shall be extended to the officers of this Ministry/Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Noted. Compliance shall be ensured.
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.



S. No.	Reference No.	Conditions	Compliance
			Monitoring reports of Ambient Air Quality (AAQ), Water and Noise levels conducted from Oct 2020 to March 2021 are enclosed in Annexure – 2 .
47.	4 (B) (xxii)	Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing. ones, if necessary in the interest of environment and the same shall be complied with.	Noted.
48.	4 (B) (xxiii)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted.
49.	4 (B) (xxiv)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	Noted.
50.	4 (B) (xxv)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	 Financial Closure for the project has been achieved on 7th July 2017. The approval of the project obtained from Director General of Civil Aviation (DGCA), GoI, New Delhi vide their letter no. AV.20024/17/00-AL dated 27th July 2017. Land development work has already been started (Letter submitted to Regional office of MoEF&CC vide letter no. GGIAL/MoEF&CC/



S. No.	Reference No.	Conditions	Compliance
			2018/0194 dated 26 th February 2018).
			The above details have been further submitted to Regional Office, MoEF&CC and MoEF&CC, New Delhi vide our letter No. GGIAL/MoEF&CC-EC/2020-21/0519 dated 13 th 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. Year-wise environmental expenditures over last 3 financial years are enclosed as Annexure – 3 .
54.	5(B)	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)	Noted. Relevant environmental acts are being complied with.



S. No.	Reference No.	Conditions	Compliance
		Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	
55.	6(B)	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 enclosed in Annexure – 4 .
56.	7(B)	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry.	Complied.
57.	8(B)	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(B)	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Being Complied.



S. No.	Reference No.	Conditions	Compliance
59.	10(B)	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(B)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Compliance being ensured.
Additio	nal NGT Cond	litions vide NGT order dated 21/08/2018	
	Α	Air Environment	
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Un-burnt and Hydro Carbons (HC), Lead (Pb), CO ₂ , SO ₂ , CO ₂ , SOOT and Oxides of Nitrogen (NOx) during operation phase are going to be major pollutants in this kind of project. Besides, fugitive emissions of Volatile Organic Compounds (VOC) during fuel handling can be another issue for ambient air environment. The provision of only 6 (six) Air Quality Monitoring Stations is inadequate as sampling duration has been given as 'twice a week, 4 weeks in a season as per CPCB standards for NAAQM, 1994. It would be appropriate if	Being Complied. Currently in the construction phase of the project, Environmental Quality Monitoring of Suspended Particulate Matter (SPM), PM ₁₀ , PM _{2.5} , SO ₂ , NOx, CO are being conducted. The AAQ Monitoring report is enclosed as Annexure-2. VOC analyser will be installed in the open ambient air in the fuel handling
		the Project Proponent establishes real time online continuous Air	



S. No.	Reference No.	Conditions	Compliance
		Quality Monitoring Station also which is connected to CPCB server and capable of monitoring all relevant and critical parameters and mitigation measures taken.	Real time online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been delivered at project site. It shall be installed at GSPCB approved location.
62.	2	Although all parameters w.r.t ambient air parameters have been found to be within limits for all 6 (six) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient air in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of AAQ monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as Annexure - 2 .
	В	Water Environment	
63,	1	Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.	Noted. Compliance shall be ensured. The rain water harvesting plan has been revised and also approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021. Refer Annexure-4 .
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.
	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	



S. No.	Reference No.	Conditions	Compliance
		monitoring of occupational noise exposure limits in such industrial environments would be appropriate with audible or visual alarm output capability.	conducted by MoEF&CC approved Environmental Laboratory.
66.	2	Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.	Noted. Compliance shall be ensured during operational phase.
67.	3	Although ambient noise levels have been found to be within limits at 9 (nine) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient noise levels in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of Noise levels monitoring conducted at additional 3 locations in the State of Maharashtra is enclosed as Annexure-2 .
	D	Land Environment	
68.	1	There is a potential for impact on soil quality due to project related spills and leaks of fuel and chemicals and uncontrolled disposal of wastes and waste water. Adequate care be taken to avoid spills and leaks of hazardous substances and all project related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	Being Complied.
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 shall be ensured as per requirements.



S. No.	Reference No.	Conditions	Compliance
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.
73.	2	Efforts be made to plant indigenous species which are tall in size rather than small saplings.	Noted. Compliance shall be ensured.
74.	3	Concerns have been raised by appellants with regard to plant species 'Dipcadi concanense' which has been claimed to be a threatened plant. This claim of the appellants have been negated by the respondent by producing a documentation of Botanical Survey of India, Western Regional Centre, Pune, Maharashtra titled as "A Note on Occurrence and Distribution of Dipcadi concanense". By invoking Precautionary Principle, we direct the Project Proponent to draw up a Conservancy by Plan/Scheme for '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	Being Complied. 'Onsite Emergency and Disaster Management Plan' for the construction



S. No.	Reference No.	Conditions	Compliance
		as to ensure preparedness and rapid response to any disasters both man-made or natural.	phase of the project is prepared and being implemented. Emergency response drills are being conducted at construction site.
76.	2	Although 'Disaster Management Plan' as Annexure-II is part of EIA Report under the Sub head 1.2.1- National Disasters needs further elaboration especially in terms of Emergency Response Measures, Rules and Responsibility, Mitigation, etc.	Being Complied. Updated 'Onsite Emergency and Disaster Management Plan' for the construction phase of the project is prepared and being implemented. Emergency response drills are being conducted at construction site.
Addend	um to EC dat	red 23 rd March 2020	
	1		
	I	Statutory compliance	
77,	I (i)	Statutory compliance 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 Annexure-4 .
77.		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	Annexure-4. Complied. Consent to Establish has been
	(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. 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	Annexure-4. Complied. Consent to Establish has been obtained from GSPCB. Refer Annexure-4. Complied. Permission has been obtained



S. No.	Reference No.	Conditions	Compliance
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NOx emissions) within and outside the airport area covering upwind and downwind directions.	Being Complied, Currently in the construction phase of the project, Environmental Monitoring of Suspended Particulate Matter (SPM), PM ₁₀ , PM _{2.5} , SO ₂ , NOx and CO are being conducted. The AAQ Monitoring report is enclosed as Annexure - 2 .
81.	(ii)	Notification GSR 94 (E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	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. Refer Annexure-4 .
87.	(ii)	It should be ensured that sustainable water flow in the valious channels of watershed in the plateau is maintained.	Compliance shall be ensured. Requirement is considered in the



S. No.	Reference No.	Conditions	Compliance
			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. Domestic and industrial waste water shall not be allowed to be discharged into the storm water drains and directed to STP for treatment.	Compliance shall be ensured. Requirement is considered in the design.
89.	(iv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Compliance shall be ensured. Requirement is considered in the design.
90.	(v)	The runoff from paved structures like Aprons can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Compliance shall be ensured. 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 implemed 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.
	IV	Noise monitoring and prevention	
94.	(i)	Notification G.S.R. 568(E) dated 18.06.2018 of MoEF&CC regarding Ambient Air Quality Standards with respect to Noise in Airport Noise Zone shall be complied with.	Noted. Compliance shall be ensured during operational phase.



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



S. No.	Reference No.	Conditions	Compliance
		program, electrical vehicles and Airport Carbon Accreditation need to be adopted to reduce its impact on climate change and Green House Gas (GHG) emissions as per environmental best practices governing greenfield airports.	Infrastructure Development program, 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	
1,	(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.
2.	(ii)	The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.	Being Complied.
3.	(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.
4.	(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.
5.	(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.



S. No.	Reference No.	Conditions	Compliance
	a.	Trash collected in flight and disposed at the airport including segregation, collection and disposed.	
	b.	Toilet wastes and sewage collected from aircrafts and disposed at the Airport.	
	C.	Wastes arising out of maintenance and workshops	
	d.	Wastes arising out of eateries and shops situated inside the airport complex.	
	e.	Hazardous and other wastes	
	VII	Green Belt	
6.	(i)	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter-alia cover the entire periphery of the Air Port.	Noted. Compliance shall be ensured.
7.	(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.
8.	(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.
9.	(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 Bo Diversity Committees, it is necessary to ensure that people are largely given native species and/or fruit bearing saplings so that	Compliance is being ensured in collaboration with GoG. GGIAL has contributed INR 60 lakhs supporting the afforestation plan of more than 2.23 lakh of saplings distributed and planted so far through Goa State Biodiversity

S. No.	Reference No.	Conditions	Compliance
		they will be able to derive economic benefits from such fruit crops and also such trees will provide better biological environment to birds.	Board (GSBB). Joint site visit inspection of plantation areas was also done by GSBB & GGIAL in March 2021.
10.	(v)	Top soil shall be separately stored and used in the development of green belt.	Being Complied.
	VIII	Public hearing and Human health issues	
11.	(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.
12.	(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.
13.	(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.
14.	(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.
15.	(v)	Occupational health surveillance of the workers shall be done on a regular basis.	Being Complied.
		Conditions of Hon'ble Supreme Court of India (SCI) Order dated 16/01/2020	
16.	(i)	Ref. No. 47: Adopt a Zero Carbon Programme during construction and operational phases of the Airport.	Noted. Compliance shall be ensured.



S. No.	Reference No.	Conditions	Compliance
17.	(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.	In line with our commitments submitted to SCI, infrastructure required for the Zero Carbon program during operational phase is considered in the design and will be implemented during the operational phase of the Airport as per the plan. Complied. NEERI has been appointed. NEERI team reviewed compliance on 21/12/2020. Further, NEERI team inspected the airport project site and reviewed the compliance during 15th to 17th February 2021.





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

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



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



ANNEXURE - A

PREVENTATIVE MAINTENANCE OF VEHICLES

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ANNEXURE - B PUC CERTIFICATE





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ANNEXURE - C

DUST CONTROL MEASURES IMPLEMENTED AT SITE





WATER SPRINKLING ON UNPAVED HAUL ROADS





FOG CANNONS DEPLOYED AT EARTH WORK AREAS



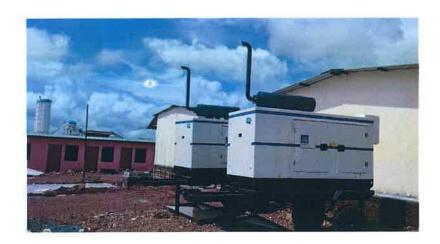


ANNEXURE - D

DIESEL GENERATORS WITH ADEQUATE STACK HEIGHT











ANNEXURE - E

PORTABLE TOILET FACILITIES







Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. (1): (0832) 2411322 / 23 9 E-mail: stariabgoa@rediffmail.com

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Lab, accredited by NABL, Valid up to 29.05.2021 * Certified by ISO 9091:2016 & ISO 45001 :2018

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.3	08/03/2021	SEE/AR/03/2021/	0375	74.26	47.60	<3.00	<9.00	0.10	128.26	
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-5	15/03/2021	SEE/AR/03/2021/	0595	58.89	50.30	<3.00	<9.00	0.07	115.51	
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7	22/03/2021	SEE/AR/03/2021/	0848	37.91	38,72	<3.00	<9.00	0.06	76.63	
8	25/03/2021	SEE/AR/03/2021/	0941	62.44	35.53	<3.00	<9.00	0.07	105.18	
9	29/03/2021	SEE/AR/03/2021/	1011	61.61	44.53	<3.00	<9.00	0.03	106.14	
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*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.

Authorized Signatory

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

☼ ; (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 € E-mail ; prs@sadekarenviro.com / psadekar5@gmail.com

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

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

E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * си ию. u45209мн1998РТС-116379

Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	
01	RDS- APM 460 BL(SR NO.1456-DTD-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
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UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

CO METER

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



Sadekar Enviro Engineers Pvt. Ltd.

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

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8	25/03/2021	SEE/AR/03/2021/0		57.52	19.71	<3	.00	<9.00	0.06	77.23	
9	29/03/2021	SEE/AR/03/2021/10	···	49.68	22.83	<3	.00.	<9.00	0.07	79.04	
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*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.

Checked by

Authorized Signatory

HEAD OFF, & LAB.: Plot No. A-95, Road No. 15, Kisan Nager Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

② :(91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 * E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF.

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

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

Respirable Dust Sampler's with Gaseous Sampling

	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
İ	01	RDS- APM 460 BL(SR NO.1901-DTJ-		24/07/2020	24/07/2021
l		2014)	21/FLOW/540		

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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



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

Lab. accredited by MABL, Velid up to 29 06.2021 ★ Certified by ISO 9001:2015 & ISO 45001:2018

SAVE WATER SAVE UFE

d 100d-100 100 100 100 100 100 100 100 100 100	The state of the s	AMBIEN	IT AI	R QUAL	ITY MONITOR	RINGR	EPORT			
Rep	Report Date 31/03/2021									
Nar	ne of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited					th Nith the Hadrands I was a second of the s				
Add	lress of Client	Mopa, Goa								
San	ple Collected	By SEEPL Repres	entati	ve					MI / 78	
San	ıpling Plan	SEEPL/LD/FA	1T- 54	San	pling Procedure N	ο.	SEEPL/QS1	P-10		
Moi	nth of Samplin	g March 2021								
	and the second			AMBIENT	AIR LOCATION					
Loc	ation of ambie	nt air station	Purv	a Casarvari	nem (Goa State)				PARAMETER AND	
Ave	rage Ambient	Temperature (°C)	30.7	Average	Humidity (%)	66	Latitude	N 15º42'4	41.9"	
Ave	rage Wind Spe	ed (km/hr)	1.5	Average	Wind direction (De	g) 198	Longitude	E 73º52'16.6"		
lnst	ruments Used	gg/gg-11 hashinadir/000000000000000000000000000000000000	FPS(FPS(APM-550), RDS(APM-460) &GPS (APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO₂	NOx	co	SPM	
1.	01/03/2021	SEE/AR/03/2021/	0038	41.17	17.01	3.98	<9.00	0.08	69.95	
2.	04/03/2021	SEE/AR/03/2021/	0217	60.01	8,89	<3.00	<9.00	0.05	76.48	
3	08/03/2021	SEE/AR/03/2021/	0377	78.20	19.69	<3.00	<9,00	0.07	115.44	
4	11/03/2021	SEE/AR/03/2021/	0494	50.36	24.50	<3.00	<9.00	0.05	92,41	
5	15/03/2021	SEE/AR/03/2021/	0597	42.69	22.39	<3.00	<9.00	0.06	71.29	
6	18/03/2021	SEE/AR/03/2021/	0757	52.69	18.64	<3.00	<9.00	0.05	71.33	
7	22/03/2021	SEE/AR/03/2021/	0850	47.85	21.37	3.62	< 9.00	0.07	69.22	
8	25/03/2021	SEE/AR/03/2021/	0943	61.27	18,96	<3.00	<9.00	0.03	80.23	
9	29/03/2021	SEE/AR/03/2021/	1013	42.81	20.61	<3.00	<9.00	0,06	109.97	
	ΝΛΛ	QS Limits*		100	60	80	80	4	-	
		Units.		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³	
~	P	Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

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

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Authorized Signatory

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

BRANCH OFF.

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

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

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
	RDS- APM 460 (SR NO. 2892-DTJ-2020)	ECL/SEEPL/2020-	14/10/2020	1.4/10/2021
l,		21/FLOW/1845		

UV Spectrophotometer

1	The state of the s					
Sr No.	Equipment Name	Calibration				
01	UV	In House Calibration				

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

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

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



B-308/307, Pict No. 61, Patel Estate, Reis Magos, Verem, Allo, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. ©: (0832) 2411322 / 23 * E-mail: starlabgoa@rediifmail.com

Lab. accredited by trast. Valid up to 29.06.2921 ★ Centried by ISO 9001-2015 & ISO 45601:2018

SOVE WOTER SOVE UPE

		AMBIEN	IT AIF	R QUAL	ITY MONITO	RING	3 REI	PORT		
Rep	ort Date	31/03/2021		AND	, ,					#
Nan	ne of Client	M/s. Megawi C/o GMR Goa			DMCC irport Limited					
Add	ress of Client	Mopa, Goa							and the second s	and a second and a discourse market and high
San	ple Collected l	By SEEPL Repre	sentati	ve						·
San	ipling Plan	SEEPL/LD/F	MT- 54		Sampling Procedu	re No		SEEPL/QSP-	10	800000 Victoria II
Mor	ith of Samplin	g March 2021			17/10/10/17/19/19/19/19/19/19/19/19/19/19/19/19/19/	nggy y a spy it as the sale obtains a				
			1	AMBIEN	T AIR LOCATIO	N				
Loc	ation of ambie	nt air station	Khajr	ie Amere l	Porscodem(Goa St	ate)		, , , , , , , , , , , , , , , , , , ,		The state of the s
Ave	rage Ambient	Temperature (°C)	31.2	Average	e Humidity (%)	and the second second second second second second second	70	Latitude	N 15º43'3	8.0"
	rage Wind Spe	**************************************	2.8	Average	e Wind direction (I	Deg)	211	Longitude	E 73049'2	1.4"
Inst	ruments Used		FPS(A	(APM-550), RDS(APM-460) &GPS (APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.	ſ	PM ₁₀	PM _{2,5}	S	\mathfrak{I}_2	NOx	co	SPM
1	01/03/2021	SEE/AR/03/2021/	0039	64.35	6.24	<3	.00	<9.00	0.03:	76.09
2.	04/03/2021	SEE/AR/03/2021/	0218	57.36	47.28	<3	.00	<9.00	0.07	119.83
3	08/03/2021	SEE/AR/03/2021/	0378	64.86	27.23	<3	.00	<9.00	0.06	92.09
4.	11/03/2021	SEE/AR/03/2021/	0495	48.15	22,53	<3	.00	<9.00	0.05	70.68
5	15/03/2021	SEE/AR/03/2021/	0598	68.75	18.59	<3	.00	<9.00	0.05	87.35
6	18/03/2021	SEE/AR/03/2021/	0758	50,73	21.53	<3	.00	<9.00	0.07	72.22
7	22/03/2021	SEE/AR/03/2021/	0851	56.33	19.67	<3	.00	<9.00	0,03	76,00
8	25/03/2021	SEE/AR/03/2021/	0944	62.32	20.67	<3	.00	<9.00	0,05	85.99
9	29/03/2021	SEE/AR/03/2021/	1014	43.28	27.37	<3	.00	<9.00	0.08	139,88
NAAQS Limits*			100	60	8	0	80	4	-	
Units				μg/m³	μg/m³		/m³	μg/m³	mg/m³	μg/m³
Method				IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1	182 102)	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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 $\textcircled{0}: \{91\text{-}22\}\ 2583\ 3321\ /\ 2583\ 3322\ /\ 2583\ 3323\ /\ 2583\ 3324 \bullet \ \text{E-mail: prs@sadekarenviro.com}\ /\ \text{psadekar5@gmail.com}$

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

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

E-mail: sadekarenviro@rediffmail.com ® Website: www.sadekarenviro.com € CIN No. U45209МH1998РTC-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.2028-DTD-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
	2016)	21/FLOW/584		

UV Spectrophotometer

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

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

1	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	1
	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021	

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



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

SAVE WHIER STIVE LIFE

		AMBIEI	VT AI	R QUAL	ITY MONITOR	RIN	IG REI	PORT	Additional and the second of t	######################################
Rep	ort Date	31/03/2021	A. S	www.waranananananananananananananananananana						
Nar	ne of Client	M/s. Megawi C/o GMR Goa								
Add	lress of Client	Mopa, Goa								
San	nple Collected	By SEEPL Repre	sentati	ve						
San	npling Plan	SEEPL/LD/F	MT- 54	Samj	pling Procedure No),		SEEPL/QS	P-10	
Мог	nth of Samplin	g March 2021								
				AMBIEN'	T AIR LOCATION	V				
Loc	ation of ambie	nt air station	Ding	na(Mahara	shtra State)			THE PERSON NAMED OF THE PE	MACABOLANO MACABONA DE PROPERTO PER PERSONA DE 18 A 1987 E 1. A	and the second s
Ave	rage Ambient	Temperature (°C)	30.4	Average	Humidity (%)	**********	67	Latitude	N 15º47'1	1.3"
Ave	erage Wind Spe	ed (km/hr)	1.9	Average	Wind direction (De	eg)	199	Longitude	E 73°53'1	1.6"
Inst	truments Used		FPS(APM-550),	RDS(APM-460) &0	3PS	(APM –	411)	A	
Sr.	Date of	.		PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}		SO ₂	NOx	co	SPM
1	01/03/2021	SEE/AR/03/2021/	0040	52.83	14.38		<3.00	<9.00	0.05	74.06
2	04/03/2021	SEE/AR/03/2021/	0219	45.25	17.34		<3.00	<9.00	0.07	62.59
3	08/03/2021	SEE/AR/03/2021/	0379	59.20	24.62		<3.00	<9.00	0.08	99.40
4	11/03/2021	SEE/AR/03/2021/	0496.	40,38	27.85		3.01	<9.00	0.06	68.23
5	15/03/2021	SEE/AR/03/2021/	0599	61.58	37.43		<3.00	10.44	0.05	102.69
6	18/03/2021	SEE/AR/03/2021/	0759	35,99	28.35		<3.00	<9.00	0.07	71.61
7	22/03/2021	SEE/AR/03/2021/	0852	43.04	18,88		4.17	<9.00	0.08	61.92
8	25/03/2021	SEE/AR/03/2021/	0945	43.76	17.75		<3.00	<9.00	0.06	106.79
9	29/03/2021	SEE/AR/03/2021/	1015	52.07	11.61	L	3.72	<9.00	0.07	72.22
	\NAA	QS Limits*		100	60		80	80	4	
		Units		$\mu g/ m^3$	μg/m³		ıg/m³	μg/m³	mg/m³	μg/m³
	1	Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		S 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.

Authorized Signatory

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.J.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

BRANCH OFF.

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

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

Respirable Dust Sampler's with Gaseous Sampling

1						
Ì	Sr No.	Equipment Name	Certificate No.		Calibration due date	
	01	RDS-APM 460 BL(SR NO. 2228-DTK-2011)		19/02/2021	18/02/2022	

UV Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

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

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

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



B-306/307, Plot No. 61, Patel Estate, Rois Magos, Verem, Alto, Old Belim Road, Bardez, Porverim, Panaji-Goa-403 101. Goa State, India.(i): (0832) 2411322 / 23 * E-mail: starlabgoa@rediffmail.com

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SAVE WATER SEWE LIFE

		AMBIEN	IT AI	R QUAL	ITY MONITORI	ING REP	ORT	e ⁿ - And I II I al III I Administration (Constitution of Constitution of Con	
Rep	ort Date	31/03/2021			, , , , , , , , , , , , , , , , , , ,				
Nan	ne of Client	M/s. Megawic C/o GMR Goa					(4)		
Add	ress of Client	Mopa, Goa							
San	ple Collected	By SEEPL Repres	entati	ve			Name of the last o		
San	pling Plan	SEEPL/LD/FA	4T-54	ز	Sampling Procedure	No.	SEEPL/QS	P-1()	
Moi	rth of Samplin	g March 2021							
				AMBIEN [*]	T AIR LOCATION				
Loca	ation of ambie	nt air station	Netai	rde(Mahara	ashtra State)	A11. dd. L. A.		The state of the s	
Ave	rage Ambient'	Temperature (°C)	31.1	Average	Humidity (%)	71	Latitude	N 15º45'	10.7"
	rage Wind Spe		1.9	Average	Wind direction (Deg) 187	Longitude	E 73º53'4	7.0"
Inst	ruments Used		FPS((APM-550), RDS(APM-460) &GPS (APM - 411)					
Sr.	Date of			PARAMETERS					
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	СО	SPM
1	01/03/2021	SEE/AR/03/2021/	0041	26.04	10.25	<3.00	<9.00	0.06	37.10
2	04/03/2021	SEE/AR/03/2021/	0220	62.00	11.61	<3.00	<9.00	0.05	73.61
3	08/03/2021	SEE/AR/03/2021/	0380	79,92	26.22	3.40	<9.00	0.09	111.83
4	11/03/2021	SEE/AR/03/2021/	0497	34.21	15.24	<3.00	<9.00	0.07	49,45
5	15/03/2021	SEE/AR/03/2021/	0600	84.59	40.06	<3.00	<9.00	0.08	124.65
6	18/03/2021	SEE/AR/03/2021/	0760	62.75	11.89	<3.00	<9.00	0.07	82.52
7	22/03/2021	SEE/AR/03/2021/	0848	50.37	14.64	<3.00	<9.00	0.05	103.65
8	25/03/2021	SEE/AR/03/2021/	0946	61,82.	11.98	<3,00	<9.00	0.06	114.07
9	29/03/2021	SEE/AR/03/2021/	1016	58.74	10.38	3.86	10.27	0,03	80.56
	ŅAA	QS Limits*		100	60	80	80	4	-
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³
A		Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

Authorized Signatory

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BRANCH OFF.

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

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

Respirable Dust Sampler's with Gaseous Sampling

	Sr No.	Equipment Name	Certificate No.	Calibration due date
	01	RDS- APM 460 BL(SR NO.1897-DTJ-2014)	ECL/SEEPL/2020-	25/07/2021
ł			21/FLOW/550	

UV Spectrophotometer

		The second secon		
	Sr No.	Equipment Name	Calibration	4
- 1	0.1	UV	Calibration	ļ
١			In House Calibration	

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

i	Sr No.	Equipment Name			
			Certificate No.	Calibrated on	Calibration due date
	01	FPS - APM 550 MINI	FI/FE/620		7411
,			EI/FF/629	20/02/2021	19/02/2022
			177000000000000000000000000000000000000		

Sr No.	Instrument T		
		Calibrated on	Calibration due date
01	CO Analyzer (SR No. 17-0135 Serinus 30)	121/07/2020	20/07/2021



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Belim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. ②: (0832) 2411322 / 23 * E-mail: starlabgoa@rediffmail.com SAVE WATCH SAVE UPE

Lab. accredited by NABL, Valid up to 29.06.2021 A Certified by ISO 9001:2015 & ISO 45001:2018

		AMBIEN	IT AII	R QUAL	ITY MONITOR	ING	REP	ORT		
Rep	ort Date	31/03/2021								
Nar	ne of Client	M/s. Megawi C/o GMR Goa			DMCC rport Limited			100-0-000-0-00-00-00-00-00-00-0-0-0-0-0		
Add	lress of Client	Mopa, Goa					·			
San	ple Collected	By SEEPL Repre	sentati	ve						
San	opling Plan	SEEPL/LD/F	MT- 54		Sampling Procedure	No.		SEEPL/QSP-	10	
Moi	nth of Samplin	g March 2021				consistency raping to a table				
			Į	AMBIEN	T AIR LOCATION					
Loc	ation of ambie	nt air station	Rajvi	l Wada To	rxem (Goa State)		· · · · · · · · · · · · · · · · · · ·		7-18-11 H-10-78-11	THE 1411 SHAPE STATE OF THE STA
Ave	rage Ambient	Temperature (°C)	30.9	Average	e Humidity (%)		69	Latitude	N 15º46'	10.0"
	rage Wind Spe		1.7	Average	Average Wind direction (Deg) 185			Longitude E 73°50'57.2"		
			FPS(A	APM-550)	, RDS(APM-460) &G	PS (A	PM 4	11)		
Sr.	Date of		-	PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2,5}	S	O ₂ .	NOx	co	SPM
1	01/03/2021	SEE/AR/03/2021/	0042	61.32	15.43	3.	43	<9.00	0.07	87.23
2	04/03/2021	SEE/AR/03/2021/	0221	91.05	25.64	<3	.00	<9.00	0.05	116.69
3	08/03/2021	SEE/AR/03/2021/	0381	71.71	12.02	<3	.00	<9.00	0.08	83.73
4	11/03/2021	SEE/AR/03/2021/	0498	58,52	20.77	5.	05	13,16	0,06	79.29
5	15/03/2021	SEE/AR/03/2021/	0601	70.14	32.46	<3	.00	11,24	0.05	111.31
6	18/03/2021	SEE/AR/03/2021/	0761	62.79	23.56	5.	05	<9.00	80,0	99.58
7	22/03/2021	SEE/AR/03/2021/	0854	85.19	15.59	<3	,00	<9.00	0,06	114.01
8	25/03/2021	SEE/AR/03/2021/	0947	88.03	22.22	6,	70	<9.00	0.07	140.12
9	29/03/2021	SEE/AR/03/2021/	1017	93.08	21.29	6.	79	12.64	0,08	132.69
	NAA	QS Limits*		100	60	{	30	80	4	-
. , , , , , , , , , , , , , , , , , , ,	,	Units		μg/ m³	μg/m³	μg	/m³	μg/m³	mg/m³	μg/m³
***********		Wethod		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)

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, Road No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

② : {91-22} 2593 3321 / 2583 3322 / 2583 3323 / 2583 3324 ● E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

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

Respirable Dust Sampler's with Gaseous Sampling

	Sr No.	Equipment Name	Certificate No.		Calibration due date
	01	RDS- APM 460 BL(SR NO.2024-DTD-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
Į		2016)	21/FLOW/583		

UV Spectrophotometer

- 1			
	Sr No.	Equipment Name	tet
			Calibration
	755	147	
	Os. [UV i	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. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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

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SAVE WATER

ng fine en gag nye ye ng n	1.21.2	***************************************	AMBIEI	A TV	IR QUAL	ITY MONITOR	RING	S REP	ORT		***************************************
Rej	oort Date		31/03/2023	^^^^, , ,,	F7 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T	A 400-000-000-000-000-000-000-00-00-00-00-				and a bit is a second of the s	***************************************
Nar	ne of Client		M/s. Megaw C/o GMR Go			DMCC rport Limited					
Ado	lress of Client		Mopa, Goa		· · · · · · · · · · · · · · · · · · ·		***************************************		an a second and a complete systems of a reason of the second of the seco	yang yang gang pamba dinada di mamani dan sasaran sasaran sasaran	
San	ple Collected	Ву	SEEPL Repr	esenta	tive				***************************************		
San	ıpling Plan		SEEPL/LD/I	MT 5	4	Sampling Proced	lure N	o.	SEEPL/Q	SP-10	
Мог	nth of Samplin	g	March 2021		The second secon					OCCUPANTA CONTRACTOR OF PROPERTY AND	
					AMBIEN [*]	FAIR LOCATION	V		7/2 Sec. 2 Sec. 2 Sec. 10 Sec.		
Loc	ation of ambie	ntair	station	Shen	necheadvan	(Goa State)	·····				
Ave	rage Ambient	Temp	erature (°C)	31.0	***************************************	Humidity (%)	· .	74	Latitude	N 15º44'0	6.1"
	rage Wind Spe			2.1	· · · · · · · · · · · · · · · · · · ·	**************************************				73º51'31.5"	
Inst	Instruments Used FPS			FPS(PS(APM-550), RDS(APM-460) &GPS (APM - 411)						
Sr.	Date of		······································				PAR/	METI	ERS	The state of the s	CONTRACTOR PLEASURE IN MICE 19, WHEREIGH.
No	Sampling.		Report No.	ľ	PM ₁₀	PM _{2.5}	S	3O ₂	NOx	co	SPM
1	01/03/2021	SEE/	AR/03/2021/0	0043	63.66	24,32	4	.68	<9.00	0.05	151.66
2	04/03/2021	SEE/	AR/03/2021/0)222	92.10	45.12	<3	3,00	12.38	0.07	177,44
3	08/03/2021	SEE/	AR/03/2021/0	382	85.64	46.96	<3	3.00	9.75	0.08	182.40
4	11/03/2021	SEE/	AR/03/2021/0	0499	64.75	28.25	<3	3.00	18.56	0,09	103.00
5	15/03/2021	SEE/	AR/03/2021/0	0602	68,55	37.77	<3	3,00	15.78	0.06	118.77
6	18/03/2021	SEE/	AR/03/2021/0	0762	67.13	28.25	<3	3.00	<9.00	0.05	74.38
7	22/03/2021	SEE/	AR/03/2021/0	0855	60.46	25.27	3	.27	<9.00	0.07	85.73
8	25/03/2021	-SEE/	AR/03/2021/0	948	87.23	52.95	10),74	12.34	0.09	165.65
9	29/03/2021	SEE/	AR/03/2021/1	1018	39.76	33.62	7.	.98	.19,06	0.08	96,71
	NAA	QS Lin	its*		100	60	{	30	80	4	-
		Units			μg/ m³	µg/m³	μg	/m³	μg/m³	mg/m³	μg/m³
************	1	Vethod			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)

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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 $\textcircled{0}: (91\text{-}22)\ 2583\ 3321\ /\ 2583\ 3322\ /\ 2583\ 3323\ /\ 2583\ 3324\ \bullet\ \text{E-mail: prs@sadokarenviro.com}\ /\ \text{psadokar5@gmail.com}$

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

Respirable Dust Sampler's with Gaseous Sampling

	Sr No.	Equipment Name	Certificate No.		Calibration due date	
1	01	RDS- APM 460 BL(SR NO.1904-DTJ-	ECL/SEEPL/2020- 25/07/2020		25/07/2021	
L		2014)	21/FLOW/548			

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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



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[and the second section of the section of									
		AMBIEI	VT AIF	R QUALIT	Y MONITC) RINI		рдрт			
Repe	ort Date	31/03/20	021		, MOINIE	VIVIEN	JAE	PUKI			
Nam	e of Client	M/s. Meg	awide Co	ide Construction DMCC							
Addı	ress of Client	Mopa, Go	Goa international Airport Limited								
Samj	Sample Collected By SEEPL Representation			ativa					The state of the s		
Samj	oling Plan	SEEPL/LE			Service 13			T			
Mont	Month of Sampling March 2021			Sampling Proc	edure	No.	SEEPL/QS	P-10	The same of the sa		
	AMBIENT AIR LOCATION										
Locat	ion of ambient	air station	Monne	Goa State)	R LUCATIO	N	of management of the same	· · · · · · · · · · · · · · · · · · ·			
Avera	ige Ambient Te	emperature (°C)	31.2				T	of the production of the same		The second section of the second	
Avera	ige Wind Speed	d (km/hr)	2.1	Average Hu	marty (%)		75.	Latitude	~~~~~~~ <u>~~</u> ,	°44′50.3″	
	The state of the s			M-550) Dis	nd direction (Deg)	167	Longitud	e E 73	º51'37.8"	
Sr.	Sr. Date of			PM-550), RDS(APM-460) &GPS (APM - 411) PARAMETERS						The second of th	
No	Sampling	Report N	lo,	ni.	DM			STERS			
1	01/03/2021	CEP/AD (00 to a	-	PM ₁₀	PM _{2.5}		5O₂	NOx	CO	SPM	
2	04/03/2021	SEE/AR/03/20:		61.77	20.80	3	.16	<9.00	0.06	120.42	
3	08/03/2021	SEE/AR/03/202		90.08	44.07	8	.76	17.09	0.09	174.12	
4.	11/03/2021	SEE/AR/03/202 SEE/AR/03/202	**************************************	88.34	42.65	8	.18	<9.00	0.10	142.86	
5	15/03/2021	SEE/AR/03/202		64.68	25.21	<3	3.00	14.06	0.08	92.89	
6	18/03/2021	SEE/AR/03/202		70.94	18.07	<3	.00	<9.00	0.06	97.97	
7	22/03/2021	SEE/AR/03/202		51,77	40.50	<3	.00	<9.00	0.05	112.70	
8	25/03/2021	Control of the Contro		69.58	21.80	<3	.00	9.30	0.08	111.83	
9	29/03/2021	SEE/AR/03/202		92.01	53.01	8.5	92	9.60	0.07	165.73	
		SEE/AR/03/202	1/1019	52.67	28.36	4.9	99	23,23	0.09	91.24	
***************************************		S Limits* Inits	3	100	60	8	0	80	4		
		JIIIES		Hg/m ³	μg/m³	μg/	m³	µig/m³	mg/m³	hg/m³	
The state of the s	M	ethod		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5 ⁻ (Part		IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)	
*8	IA TOYONIA I	einod	The second of th		SEE/LD/SOP-						

*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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☼ ; (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 € E-mail ; prs@sadekarenviro.com / psadekar5@gmail.com

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

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

Respirable Dust Sampler's with Gaseous Sampling

1	Sr No.	Equipment Name	quipment Name Certificate No.		
	01	RDS- APM 460 BL(SR NO.1899-DTJ-		24/07/2020	24/07/2021
		2014)	21/FLOW/541		

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
1 ~ 4	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021



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	NOISE LEVEL MONI	TORING REPORT					
Report No.	SEE/AR/03/2021/0501-0502, 0825, 079 0796, 0765, 1044, 1046,0824,1043, 10		01/04/2021				
Name of Client	Mic Magnetide Construction DUCC						
Address of Client	Mopa, Goa	ten. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	No. 11 of the wilder control 14 houses 11 according to the control 14 hours of 14 hours of 14 hours of the control 14 hours of				
Sample Collected By	SEEPL Representative	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	AMBLE C I debit continuity ()				
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10				

Sr. No	Date of Monitoring	Papert No.	Station	Zone	one Sampling Location		Day Time Noise in dB(A)			Night Time Noise in dB(A)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10			Lmin	Lmax	Leg	Lmin	Lmax	Lea	
1.	11/03/2021	SEE/AR/03/2021/0501	G-N1		Мора	30.4	72.1	63.4	34.1	52,3	46.3	
2.	11/03/2021	SEE/AR/03/2021/0502	G-N2	ļ	Shemecheadvan	30.0	88.2	68.0	33,1	68,6	48.5	
3.	20/03/2021	SEE/AR/03/2021/0825	G-N3	С	Nagzar	31.8	55,2	44.4	30.0	56.3	44.3	
4.	19/03/2021	SEE/AR/03/2021/0795	G-N4	R	Purva Casarvarnem	30.0	66.3	49,3	30.4	65,2	42.8	
5.	18/03/2021	SEE/AR/03/2021/0764	G-N5	R	Chandel	30.0	65.3	50.3	31.3	48,3	35,8	
6.	19/03/2021	SEE/AR/03/2021/0796	G-N6	R	Khajne Amere Porscodern	33,0	67.1	46,1	35.0	58.3	41.8	
7.	18/03/2021	SEE/AR/03/2021/0765	G-N7	R	Warkhand	30,0	70.9	50.3	30.3	61.1	42.1	
8.	30/03/2021	SEE/AR/03/2021/1044	G-N8	Ċ	Rajvil Wada Torxem	30.6	67.9	54.5	30.0	53.0	37.4	
9.	31/03/2021	SEE/AR/03/2021/1046	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvem	34.3	77.7	54.8	32.5	53,5	44,3	
10.	20/03/2021	SEE/AR/03/2021/0824	M-N1	R	Satarda	32.2	66.2	51.6	31,5	66.5	42,5	
11.	30/03/2021	SEE/AR/03/2021/1043	M-N2	R	Dingna	30.0	77.5	48.2	30.1	55.8	40.4	
12.	31/03/2021	SEE/AR/03/2021/1045	M-N3	R	Netarde	31.3	60.4	46.6	30,1	45.4	36.8	

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

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

	T	· · · · · · · · · · · · · · · · · · ·	Onorto.	
Area Code	Category of Area	Limits in dB(A) Leq		
		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 9.00pm and night time is reckoned in between 9.00pm to 6.00am.

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

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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BRANCH OFF.

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

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

Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date	
01	Noise Level Meter	LES-CCL/MECH/SLM/199	17/07/2020	1.6/07/2021.	

Noise Level Meter No.2 (A0114-1408)

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



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SAVE WATER SAVE UFC

	ANALYSIS REPOI	RT FOR WATER SAMPLE					
Report No.	SEE/03/2021/292	Report Date)3/2021			
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa			(44,444,444,444,444,444,444,444,444,444			
Address of Client Mopa, Goa							
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp ⁰ C	Humidity %			
Oluei / Reference	As per dated 10/03/2021	Enviorational Condition of Euc	28.3	66			
Sampling point	Admin						
Sample details	Drinking Water	Date of collection	18/0	03/2021			
Sample Collected by	SEEPL Representative	Sample Received On	18/03/2021				
Analysis Started On	18/03/2021	Analysis Completed On	25/0	03/2021			
Sample Container	Glass bottle	Sample Quantity	100	1000 ml			

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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

E-mail: sadekarenviro@rediffmail.com

Website: www.sadekarenviro.com

CIN No. U45209MH1998PTC-116379

Equipment Calibration Details

٠.,	THE THOUGH A TELEPHONE AND AREA TO THOUGH A TELEPHONE AND A TELEPHONE AND A TELEPHONE AND A TELEPHONE AND A TELEPHONE		Man Perioda and Property and Period and Control and Co	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01,	Microbiological Incubator (37 ºC)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	Report Date	25/0	25/03/2021		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp ^o C	Humidity %	
Order / Reference	As per dated To/05/2021	Ellaholithetitat Colouron of Fan	28.3	66	
Sampling point	LSC				
Sample details	Drinking Water	Date of collection	18/0	3/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/0	3/2021	
Analysis Started On	18/03/2021	Analysis Completed On	25/0	3/2021	
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(23 rd Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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 $\textcircled{0}: (91\text{-}22)\ 2593\ 3321\ /\ 2583\ 3322\ /\ 2583\ 3323\ /\ 2583\ 3324 \bullet \ E-mail: prs@sadekarenviro.com\ /\ psadekar5@gmail.com\ /\ psadekar5@gm$

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E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * CIN No. U45299MH1998PTC-116379

Equipment Calibration Details

Sr.		F	SANTON CONTRACTOR OF THE CONTR	Calibratio	Calibration Details		
No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021		
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021		
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021		
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021		



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Sove Dairea SHIVE LIFE

	ANALYSIS REPOI	RT FOR WATER SAMPLE			
Report No.	SEE/03/2021/294	Report Date	25/03	/2021	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa			Lattick Lattick and Advanced Annual Conference on the Conference o	
Address of Client	Mopa, Goa	A fill the history of the second program of the history of the his			
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp ⁰ C	Humidity %	
	710 per duted 10/00/2021	Environmental container of Edo	28,3	66	
Sampling point	VNC Colony				
Sample details	Drinking Water	Date of collection	18/03	/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/03/2021		
Analysis Started On	18/03/2021	Analysis Completed On	25/03/	/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-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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E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • сін нь. U45209МН1998РТС-116379

Equipment Calibration Details

			THE STREET S	Calibration Details	
Sr. No.	Hould the more than the many the many the many than the many than the many th	Equipment ld	Certificate No.	Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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SOVE LUATER SPIVE UPE

	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	SEE/03/2021/295	SEE/03/2021/295 Report Date		/03/2021	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp ⁰ C	Humidity %	
	As per dated 10/03/2021	Environmental Condition of Eab	28.3	66	
Sampling point	PTB				
Sample details	Drinking Water	Date of collection	18/03/	18/03/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/03/2021		
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021		
Sample Container	Glass bottle	Sample Quantity	1000 i	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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

E-mail : sadekarenviro@rediffmail.com * Website : www.sadekarenviro.com * сли но. U45209мн1998Р1С-116379

Equipment Calibration Details

0	THE CONTRACT OF THE CONTRACT O		Andrew Control of the	Calibratio	Calibration Details		
Sr. No.	Equipment Name	Equipment ld	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021		
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021		
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021		
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021		



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SAVE HIPTOR

	ANALYSIS REPOR	RT FOR WATER SAMPLE			
Report No.	SEE/03/2021/296	SEE/03/2021/296 Report Date		/2021	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	A	Environmental Condition of Lab	Temp OC	Humidity %	
	As per dated 18/03/2021	CHAIRMINGHAR CONGRIQUE OF PAY	28.3	66	
Sampling point	R R Canteen				
Sample details	Drinking Water	Date of collection	18/03	18/03/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/03/2021		
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021		
Sample Container	Glass bottle	1000	ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN .	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
Ż.	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

C.	Sr. Equipment Name			Calibration Details	
No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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SAVE WATER SHIVE LIFE

	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	SEE/03/2021/300	Report Date	25/03	/2021	
Name of Client	M/s, Megawide Constructio C/o GMR Goa Internationa		от менения от на на на в на в на	and and J. E. Salas Salas P. Salas Salas Annolessa and company agency agreemance	
Address of Client	Mopa, Goa	A CONTRACTOR OF THE CONTRACTOR	Management (Management (Management (Management (Management (Management (Management (Management (Management (Ma	and the section of th	
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp ⁰ C	Humidity %	
	As per dated 10/03/2021	Environmental Condition of Lab	28.3	66	
Sampling point	CH 2700				
Sample details	Drinking Water	Date of collection	18/03/	/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/03/	18/03/2021	
Analysis Started On	18/03/2021	Analysis Completed On	25/03/	2021	
Sample Container	Glass bottle	Sample Quantity	1000 i	1000 ml	

Microbiological Parameters

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

Note: Test results related only to the sample tested.

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

Equipment Calibration Details

A debet a ser ment of continuous	And and the second seco			Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
03.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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	ANALYSIS REPOR	RT FOR WATER SAMPLE			
Report No.	SEE/03/2021/297	Report Date	25/0	25/03/2021	
Name of Client	M/s, Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa				
0.1	A., and doing 10/02/2001	Environmental Condition of Lab	Temp OC	Humidity %	
Order / Reference	As per dated 18/03/2021	ETIMIONNICITES CONTRIBUTION Law	28.3	66	
Sampling point	Borewell No. 1				
Sample details	Ground Water	Date of collection	18/	03/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/	03/2021	
Analysis Started On	18/03/2021	Analysis Completed On	25/	25/03/2021	
Sample Container	Glass bottle + PVC Can	Sample Quantity	100	1000 ml + 4000ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.90	44	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.69	NTU	1,00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable		Not Specified	APHA(23rdEdition) 2160 B
4.	Color	<1.00	Hażen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable		Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	42.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	179.00	mg/lit	500,00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as CI	18.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ -	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10,	Sulfides	<2.00	mg/lit	Not Specified	APHA(23rdEdition) 4500 S2F
11,	Total Hardness as CaCO ₃	102.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0,50	IS- 3025 (Part 34): 1998 (RA-2014)
13,	Mineral oil	<0.1	mg/lit	0,50	Clause 6 of IS 3025 (Part 39): 1991

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Report No.	SEE/03/2021/297	Report Date	25/03/2021		
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021		
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021		
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26); 1986 (RA 2014)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F-	<0.10	mg/lit	Not Specified	APHA(23rd Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23rdEdition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23rdEdition) 5540 - C
	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	21.64	mg/lit	Not Specified	APHA(23rdEdition) 3500Ca B
24.	Cadmium as Cd.	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25,	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	11.69	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)
	البيا	······································			Alternative programme and the control of the contro

Checked by

Lhopde Kay Authorized Signatory

Report No.	SEE/03/2021/297	Report Date	25/03/2021	
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021	
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Not Specifiéd	APHA(23rdEdition) 9221-B
35.	E,coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) ₂ 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

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



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	ANALYSIS REPO	RT FOR WATER SAMPLE	V 100 100 100 100 100 100 100 100 100 10		
Report No.	SEE/03/2021/298	Report Date	25/0:	25/03/2021	
Name of Client	M/s. Megawide Construction C/o GMR Goa International				
Address of Client	Mopa, Goa	N. H. La berrer and the state of the state o	***************************************	The first of the force of the first of the f	
Order / Reference	As per dated 18/03/2021	Environmental Condition of Lab	Temp O C	Humidity %	
The Administration of the System opening Market delengation and minimum properties and later sizes of societies		The state of the s	28.3	66	
Sampling point	Borewell No. 2			PP C PROPERTY TO THE PROPERTY OF THE PROPERTY	
Sample details	Ground Water	Date of collection	18/03	/2021	
Sample Collected by	SEEPL Representative	Sample Received On	18/03	/2021	
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021		
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000	1000 ml + 4000mi	

	Chemical	Testing
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Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.29	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.57	ити	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23rdEdition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23rdEdition) 2120 B
5.	Odour	Agreeable		Not Specified	APHA(23rdEdition) 2150 B
6.	Total Alkalinity	108,00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	163.00	mg/lit	500.00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as CI	16.01	mg/lit	250.00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ -	<5.00	mg/lit	200.00	IS 3025 (Part 24); 1986 (RA 2014)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23rdEdition) 4500 S2F
11.	Total Hardness as CaCO ₃	90.00	mg/lit	200.00	IS 3025 (Part 21); 2009 (RA 2014)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
13.	Mineral oil	<0,1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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

Report No.	SEE/03/2021/298	Report Date	25/03/2021			
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021			
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26); 1986 (RA 2014)
15.	Nitrate as NO₃	<1.00	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23™Edition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C
Metal	Analysis				

Metal	

/letal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23.	Calcium as Ca	20.04	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0,003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	9.74	mg/lit	Not Specified	APHA(23rdEdition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5,00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1,00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1,00	mg/lit	Not Specified	APHA(23rdEdition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/03/2021/298	Report Date	25/03/2021		
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021		
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021		
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Microbiological Parameters

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

Note: Test results related only to the sample tested.
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Equipment Calibration Details

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



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Contraction .	ANALYSIS REPO	RT FOR WATER SAMPLE	is to community, and community to a community of community with a com-	The second secon		
Report No. SEE/03/2021/299 Report Date 25/03/2021						
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa	VALUE VALUE AND				
Order / Reference	ce As per dated 16/03/2021 Environmental Condition of Lab		Temp ⁰ C	Humidity %		
Sampling point	Borewell No. 3			66		
Sample details	Ground Water	Date of collection	18/03/	/2021		
Sample Collected by	SEEPL Representative	Sample Received On	18/03/			
Analysis Started On	18/03/2021	Analysis Completed On		**************************************		
Sample Container Chemical Testing	Glass bottle + PVC Can	Sample Quantity		25/03/2021 1000 ml + 4000ml		

Sr. No.		Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.57	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.66	NTU	1.00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	4-	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	84.00	mg/lit	200.00	IS 3025 (Part 23); 1986 (RA 2014)
7.	Total Dissolved Solids	158.00	mg/lit	500,00	IS 3025 (Part 16); 1984 (RA 2012)
8.	Chlorides as CI	17.01	mg/lit	250,00	IS 3025 (Part 32); 1986 (RA 2014)
9.	Sulphate as SO ₄ :	<5.00	mg/lit	200,00	The same of the sa
10.	Sulfides	<2.00	mg/lit	Not Specified	IS 3025 (Part 24); 1986 (RA 2014)
11.	Total Hardness as CaCO ₃	66.00	mg/lit	200.00	APHA(23 rd Edition) 4500 S ² F
12.	Ammonia	<0.50		and the state of t	IS 3025 (Part 21); 2009 (RA 2014)
13.	Mineral oil		mg/lit	0.50	IS- 3025 (Part 34): 1998 (RA-2014)
, 0,	Withou di Oli	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/03/2021/299	Report Date	25/03/2021				
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021				
Analysis Started On	18/03/2021	Analysis Completed On	25/03/2021				
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Testing	na	Testi	cal	Chemi
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Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14,	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26); 1986 (RA 2014)
15.	Nitrate as NO ₃	1.23	mg/lit	45.00	IS 3025 (Part 34); 1988 (RA 2014)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23rdEdition) 4500 F D
 17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23rdEdition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 – C
	Analysis		900999 mm m 000009 00099 m m 0000000000	1	
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2); 2004 (RA 2014)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2); 2004 (RA 2014)
22,	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2); 2004 (RA 2014)
23,	Calcium as Ca	14.42	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2); 2004 (RA 2014)
25.	Iron as Fe	<0.01	mg/lit	1.00	IS 3025 (Part 2); 2004 (RA 2014)
26.	Lead as Pb	<0.01	mg/lit	0,01	IS 3025 (Part 2); 2004 (RA 2014)
27.	Magnesium as Mg	7.31	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2); 2004 (RA 2014)
30.	Zinc as Zn	<0.01	mg/lit	5.00	IS 3025 (Part 2); 2004 (RA 2014)
31.	Sodium as Na	<1,00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2); 2004 (RA 2014)

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Report No.	SEE/03/2021/299		erenter grant de como transcrio de la constitución de la constitución de la constitución de la constitución de			
0	OWN.10012.02.112.33	Report Date	25/03/2021			
Order / Reference	As per dated 18/03/2021	Sample Received On	18/03/2021			
Analysis Started On	18/03/2021	Analysis Completed On				
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Microbiological Paramet	ers	POLITIFICA	18			

	The state of the s	·			his
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Wethod
34.	Total coliforms at 37ºC for 48 hrs.	Absent	MPNIndex/100ml		APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5ºC for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

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



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AND THE PROPERTY OF THE PROPER	ANALYSIS REP	ORT FOR	WATER SAMPLE	and the second s	·	
Report No.	SEE/03/2021/311		Report Date	20,000	1004	
Name of Client	M/s. Megawide Construction C/o GMR Goa Internation	uction DMCC			CUZT	
Address of Client	Mopa, Goa		THE PROPERTY OF THE PROPERTY O		the transport of the special state of the special state of the second state of the sec	
Order / Reference	As per dated 19/03/2021	Environmental Condition of Lab		Temp ⁰ C	Humidity %	
Sampling Plan				27.9	67	
	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		
Sampling point	STP	an direction that consists of probability properties and the stay	997 B. Incorporation for years but groups which incorporated to provide which go deather in provide the con-		7 0	
Sample details	inlet Water		Date of collection	Intonio.	name and the second	
Sample Collected by	SEEPL Representative				19/03/2021	
Analysis Started On	**************************************		Sample Received On	19/03/20	19/03/2021	
	19/03/2021		Analysis Completed On	25/03/20	25/03/2021	
Sample Container	Glass Bottle + PVC Can		Sample Quantity		1000 ml + 1000ml	
Chemical Parameters	Andrew St. Company of the Company of			ונון טטטו	* TOOOM!	

Sr. No.	Parameters	Results	Unit	Method
1.	рН	5,23	-	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1440.00	mg/lit	APHA(23rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27ºC 3 day)(BOD)	320.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	356.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	28.40	mg/lit	APHA(23rd Edition) 5520-0 &G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
	all backs	Q/062	2020/09/286	16/09/2020	16/09/2021	
01.	pH Meter		E0000/05/043	30/05/2020	30/05/2021	
02.	COD Digester	Q/019	E2020/05/043	30/03/2020		
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021	
		0.1000	T2020/06/041	27/06/2020	27/06/2021	
04.	Hot Air Oven	Q/039	12020/00/041	1170012020	<u> </u>	



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	ANALYSIS REP	ORT FO	R WATER SAMPLE		
Report No.	SEE/03/2021/312		Report Date	25/03/20)21
Name of Client	M/s. Megawide Construction C/o GMR Goa International			TO A COLUMN TO THE STATE OF THE	and the state of t
Address of Client	Mopa, Goa			- The state of the	VI - 1884 AV S.S. AV AVAINA
Order / Reference	As per dated 19/03/2021	Envi	onmental Condition of Lab	Temp ⁰ C	Humidity %
	710 por dottod 10/00/2021	on montal portainon of Lag	27.9	67	
Sampling Plan	SEEPL/LD/FMT- 54	Sampl	ing Procedure No.	SEEPL/QSP	-10
Sampling point	STP		and the second of the second sec		TOTAL TOTAL CONTRACTOR OF THE STREET
Sample details	Outlet water	The second secon	Date of collection	19/03/20	121
Sample Collected by	SEEPL Representative		Sample Received On	19/03/20	21
Analysis Started On	19/03/2021		Analysis Completed On	25/03/20	21
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	+ 1000ml

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1,	pН	7.11		5.5 – 9.0	APHA(23rdEdition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	184.00	mg/lit	250.00	APHA(23rdEdition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	25.52	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	95.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	6.20	mg/lit	10.00	APHA(23 rd Edition) 5520-O &G

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

Note: Test results related only to the sample tested.

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Equipment Calibration Details

				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2020/09/286	16/09/2020	16/09/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021



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Rer	oort Date		/02/20								
	ne of Client	M/	s. Meg	awide		tion DMCC al Airport Limited				0000 000000000000000000000000000000000	
Add	ress of Client	Мо	pa, Go	а						**************************************	
San	npling Plan	SEL	3PL/L	D/FM	T- 54	Sampling Procedu	re No	. S	EEPL/QSP-1	O	
San	nple Collected	By SEI	3PL Ře	prese	entative						
Мог	nth of Samplin	g Feb	ruary	2021							The state of the s
					AMBIEN	T AIR LOCATION	V				TYPO N/A: 19th de alembiente l'Antonio de a comme de
Loc	ation of ambie	nt air station		Мор	a(Goa Stat	e)				and the state of t	
Ave	rage Ambient	Temperature	(°C)	31.8	~~~	Average Humidity (%) 69 Latitude N 15°44'					50,3"
Ave	rage Wind Sp	ed (km/hr)	.3	1.7	Average	Wind direction (De	eg)	233	Longitude	E 73º51'3	37.8"
Inst					APM-550)	, RDS(APM-460) & C	SPS (APM -	411)		
Sr.	Date of	Managara da	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				PAR	AMET	ERS	v	
No.	Sampling	Report	No.		PM ₁₀	PM _{2,5}		SO ₂	NOx	со	SPM
1	01/02/2021	SEE/AR/02/2	2021/0	018	68.10	40.22	7	7.20	14.08	0,05	108.32
2	04/02/2021	SEE/AR/02/2	2021/0	187	72.14	20.15	<	3.00	15.59	0.06	92.29
3	08/02/2021	SEE/AR/02/2	2021/0	341	93.20	15,65	(l,33	15.82	0,08	165.71
4	11/02/2021	SEE/AR/02/2	2021/0	442	70.23	43.56	3	3.47	15.68	0.07	127.12
5	15/02/2021	SEE/AR/02/2	2021/0	576	62.97	48.90	{	3.81	15.19	0.09	166,02
6	18/02/2021	SEE/AR/02/2	021/0	659	75.16	37.72	<	3.00	16.96	80.0	145,81
. 7	22/02/2021	SEE/AR/02/2	021/0	842	42.32	14.17	<	3.00	24.48	0.05	56.49
8 25/02/2021 SEE/AR/02/2021/0978					68.79	34.53	3	3.98	16,78	0.05	78.20
	NAAQS Limits*				100	60		80	80	4	
		Units			μg/ m³	μg/m³		g/m³	μg/m³	mg/m³	μg/m³
	Method				IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 art 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

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

Checked by

Vchopdekar **Authorized Signatory**

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

(9): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@sadekarenviro.com / psadekar5@gmail.com

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		А	MBIEI	NT A	IR QUAL	ITY MONITOR	RIN	G REF	ORT		
Rej	port Date		26/02/	2021	***************************************			***************************************	V. 4	· · · · · · · · · · · · · · · · · · ·	
Na	me of Client				de Construc internation	tion DMCC nal Airport Limited		24mm 21.2m 21.1m 21.1m 21.	F 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1		
Ado	dress of Client	HIPP	Mopa, (A / Multi ARNA ARNA ANNONANANAN (1871) A MIC (1881) 1881 (1881)		
Sar	npling Plan		SEEPL/	LD/F	MT- 54	Sampling Pro	cedi	re No.	SEEPL/QSI	P-10	0.40.00
Sar	nple Collected	Ву	SEEPLI	Repre:	sentative		***********	*******	to receive a familiar	~~~~	
Мо	nth of Samplin	g	Februa	ry 202	1	t eftere of finger over prove, 1997, p. 17-17 of the small frame declaration on the same and province province pro	***************************************	PERSONAL PRODUCTION OF MARRIES ASSESSED.		Andrew Control of the	
					AMBIEN	T AIR LOCATION	j	Principal to 1961 and one had the face and t			
Loc	ation of ambie	nt air statio	n	Shen	necheadvan			The charles the tree was to demand a grade for			
Ανε	erage Ambient	Temperatu	re (°C)	30.2		Humidity (%)		67	Latitude	N 15044'0	6.1"
Ave	erage Wind Spe	ed (km/hr))	1.6		Wind direction (De	g)	189	Longitude	E 73º51'3	
Ins	truments Used			FPS(APM-550),	RDS(APM-460) &G	PS (A	\PM - 4		Anna a management	
Sr.	Date of	D	A NI -			and the second s	PAF	AMETI	ERS	No. Philip Park Colores and anguing to the color to a decision of	v
No	Sampling	кер	ort No.		PM ₁₀	PM _{2.5}		SO ₂	NOx	со	SPM
1	01/02/2021	SEE/AR/O	2/2021/0	0017	91.94	50.48		4.92	20.07	0.08	184.42
2	04/02/2021	SEE/AR/O	2/2021/0)186	80.56	36.26		9.71	19.24	0.06	116.82
3	08/02/2021	SEE/AR/O	2/2021/0	340	92.70	54.50	total (n. miniaro d	6.10	18.00	80,0	280.49
4	11/02/2021	SEE/AR/02	2/2021/0)441	94.30	46,86		10.84	15.75	0,09	266.16
5	15/02/2021	SEE/AR/02	2/2021/0	575	95,35	55.14		6.61	15.96	0.07	187.71
6	18/02/2021	SEE/AR/02	2/2021/0	658	92.60	39.22		3.00	23.53	0.08	258,88
7	22/02/2021	SEE/AR/02	2/2021/0	841	78.42	33.81	<	3.00	21.40	0.05	136.75
8	25/02/2021	SEE/AR/02	2/2021/0	1977	91.30	57.57	<	3.00	19.91	0.06	158.65
	NAA	QS Limits*			1.00	60	<u> </u>	80	80	4	-
		Units			μg/ m³	μg/m³	11	g/m³	μg/m³	mg/m³	μg/m³
	ħ	lethod			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5 5182 art 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

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HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar6@gmail.com

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

BRANCH OFF,

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



B-306/307, Plot No. 61, Patel Estate, Reis Mages, Verem, Alte, Old Bellim Road, Bardez, Pervorim, Penaji-Goa-403 101. Goa State, India. O.: (0832) 2411322 / 2411323 • E-mail: startabgoa@rediffruail.com

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			AMBIE	NTA	VIR QUA	LITY MONITO	ORIN	IG RE	P∩RT	The state of the s	
Re	port Date		26/02/2				~		· ON I		
Na	ime of Client	and the second of the second o	M/s. Me	gawic	le Constru internatio	ction DMCC nal Airport Limited		**************************************		PERSONAL PROPERTY AND ADMINISTRATION OF THE PROPERTY AND ADMINISTRATION OF THE PERSON	The state of the s
Ad	dress of Client	-	Mopa, G	oa	1	Marin port billing	(V/84	W - / 1 1 1 1 1 1 1 1 1 1	
Sai	mpling Plan	\	SEEPL/L	.D/FN	1T- 54	Sampling Procedu	ero Na		SEEPL/QSP-	1 /1	***************************************
Sai	mple Collected	Ву	SEEPLR					2	oper I/ 691-	10	A
Мо	inth of Samplin	1g	February		A. A	and the second section of the second section s			Christia Commission Commission		···
			The second secon		AMRIEN	IT AIR LOCATIO	R.J		Company of the Compan	The Marketon of A. S.	
Loc	cation of ambid	ent air stat	ion	Nag	zar(Goa St		IA		The state of the s	**************************************	### / of control 1889 18
	erage Ambient	AND ALL PROPERTY AND AL		30.5		e Humidity (%)				·	***************************************
Ave	erage Wind Sp	eed (km/h	rì	1.3		e Mind direction (I	· · ·	74	Latitude	N 15º42"	
						, RDS(ΛPM-460) &		208	Longitude	E 73º51'	14.22"
Sr.	Date of	1			350,	Trootarm-400) &			ALL SQUARES AND ASSESSMENT OF THE PARTY OF T	the different company and the company of the compan	
No	Sampling	Re	port No.	PARAMETERS PM ₁₀ PM ₂₅ SQ ₂ NQ QQ QQ							
1	01/02/2021	SEF/AD/	02/2021/0	20:14		PM _{2.5}	}	60₂	NO _X	CO	SPM
2	04/02/2021				76.64	30.19	4	.51	14.73	0.07	106.83
3	08/02/2021		02/2021/0		56.63	37.19	<;	3.00	10.59	0.06	108.71
4			02/2021/0		87.65	24.22	5	.24	11.48	0.08	157.70
5	11/02/2021		02/2021/0		64.77	29.60	4	.01	12.61	0.03	96.77
	15/02/2021		02/2021/0		61.81	23.17	<3	3.00	<9.00	0.07	136.12
6	18/02/2021		02/2021/0		76.88	54.03	<3	.00	<9.00	0.05	130.91
8	22/02/2021		02/2021/0		41.47	25.86	<3	.00	<9.00	0.07	67.33
0	25/02/2021		2/2021/0	971	57.58	18.10	<3	.00	10.97	0.06	70.01
		QS Limits*			100	60	8	0	80	4	, 5,01
	THE STATE OF THE S	Units			μg/ m ³ μg/m ³		μg/m³		μg/m³	mg/m³	μg/m³
	M	lethod			(S:5182(Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04	IS 5 (Par	182 t 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

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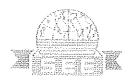
JehopdeKar

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Klsan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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



8-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto. Old Butim Road, Bardez, Porvorim, Panaji-Geo-403 101. Goe State, India. (Ö.: (0832) 2411322 / 2411323 • E-mail : starlabgoa@redilfmail.com

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		F	MBIE	NT A	IR QUA	LITY MONITOR	RING	REP	ORT			
Re	port Date		26/02/2	• ** • • • • • • • • • • • • • • • • •						**************************************		
Na	me of Client		M/s. Me C/o GMF	gawid E Goa i	e Construc nternation	tion DMCC al Airport Limited	 	·	· · · · · · · · · · · · · · · · · · ·			
Ad	dress of Client		Mopa, Go				***************************************		The second secon			
Sar	npling Plan		SEEPL/L	D/FM	T- 54	Sampling Pro	ocedure	No.	SEE	PL/QSP-10		
	uple Collected		SEEPL R	epres	entative	(//			-A.L.	
Мо	nth of Samplin	ıg	February	2021	*				- V		/uhuhuma	
		The state of the s			AMBIEN	T AIR LOCATION	1	-1 220.00	**	A705		
	ation of ambie	OTOTOTO WANTED VA		Sata	rda(Mahar	ashtra State)	*/ . */ (to I continue y compressory and state of the land the land and the compression of the land	Principal addresses and period for the control of t	Addition to the service of the servi	
	erage Ambient			30.1	Average Humidity (%) 71 Latitude N15º45'0						1.3"	
	erage Wind Spe		r)	1.5	Average Wind direction (Deg) 219 Longitude E 73º48'00.2"							
Ins	nstruments Used				APM-550),	RDS(APM-460) &G	PS (AP	M - 41	1)	J		
Sr.	Date of	Re	nort No				PARAI	METEI	RS			
No	Sampling	ate of Report No.			PM ₁₀	PM _{2.5}	SC)2	ŃОх	co	SPM	
1	01/02/2021	SEE/AR/0	02/2021/0	010	63.58	25.62	<3.0	00	16.90	0.08	89.20	
2	04/02/2021	SEE/AR/C	02/2021/0	179	55.14	28.74	<3.0	00	13.29	0.07	83.88	
3	08/02/2021	SEE/AR/C	02/2021/0	333	56.58	23.82	<3,0	00	9.68	0.05	96.81	
4	11/02/2021	SEE/AR/O	02/2021/0	434	54.92	24.09	4.7	5	<9.00	0.06	85.22	
5.	15/02/2021	SEE/AR/C	02/2021/0	568	55.08	26,20	<3.0	00	11.51	0,05	103.66	
6	18/02/2021	SEE/AR/C	2/2021/0	651	56.35	52.70	<3.0	00	9.18	0.08	150,54	
7	22/02/2021	SEE/AR/C	2/2021/0	834	57.54	31.79	<3.0	00	13.70	0.07	96.01	
8	25/02/2021		2/2021/0	970	55.85	31.20	<3.0	00	9,88	0.05	99.01	
	NAAG	QS Limits*			100	60	80		80	4	+	
		Units			μg/ m³	μg/m ³	μg/r	n³	μg/m³	mg/m³	μg/m³	
	N	lethod .			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)

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BRANCH OFF.

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



B-309/397, Plot No. 61, Patel Estate, Reis Mages, Varem, Alto, Old Betim Road, Bandez, Porvorim, Panaji-Goa-4B3 101. Goa State, India. \mathcal{O} .; (0832) 2411322 / 2411323 \bullet E-mail : starlabgoa@rediffmail.com

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Rej	oort Date	50° - 11 to (1000)	26/02	2/202	1								
Nai	me of Client					uction DMCC onal Airport Limite	d		T (T) 1 T 1 1 1 1 1 1 1 1		and and animals are not find the first and are not an extension of		
Ada	dress of Client		Мора	, Goa							The state of the s		
San	npling Plan		SEEPI	L/LD/	/LD/FMT- 54 Sampling Procedure No. SEEPL/QSP-10								
San	nple Collected	Ву	SEEP	. Repr	esentative								
Мо	nth of Samplin	g	Febru	ary 20)21						***************************************		
					AMBIEN	T AIR LOCATION	į						
Loc	ation of ambie	nt air statioi	1	Neta	rde(Mahar	ashtra State)							
Ave	erage Ambient	Temperatur	e (ºC)	30.6	Average	Humidity (%)		68	Latitude	N 15º45"	10.7"		
Ave	erage Wind Spe	ed (km/hr)		1.3	.3 Average Wind direction (Deg) 198 Longitude E 73°53'47.0"								
Inst	nstruments Used F				APM-550),	RDS(APM-460) &G	PS (APM -	411)	note the books of the technology seems way			
Sr.	Date of	Peno	rt No.				PAR	AMET	ERS		-		
No	Sampling	iveho	IL NO.		PM ₁₀	PM _{2.5}		SO_2	NOx	co	SPM		
1	01/02/2021	SEE/AR/02	/2021/0	0015	29.91	10.50		4.20	<9.00	0.06	40,41		
2	04/02/2021	SEE/AR/02	/2021/0	0184	74.72	22.41		3.00	<9.00	0.09	107.45		
3	08/02/2021	SEE/AR/02	/2021/0	0338	87.93	23.45		3.00	<9.00	0,05	111.38		
4	11/02/2021	SEE/AR/02	/2021/0	0439	53.31	21.88	-	3.00	9.47	0.06	79.97		
5	15/02/2021	SEE/AR/02	/2021/0	0573	75,54	18.44	<	3.00	<9.00	0.05	93.98		
6	18/02/2021	SEE/AR/02	/2021/0	0656	89.75	25.87	<	3.00	1.0.92	0.07	117.11		
Ï	22/02/2021	SEE/AR/02,	/2021/0	0839	52.98	11.51	<	3.00	<9,00	0.03	70.25		
8	25/02/2021	SEE/AR/02,	/2021/0)975	46,78	23.62	<	3,00	<9.00	0.03	76.70		
	NAAQS Limits*				100	60		80	80.	4:	-		
	, A. W. 1911	Units			μg/ m³	μg/m³	μ	g/m³	μg/m³	mg/m³	μg/m³		
	Method				IS 5182(Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04		5 5182 art 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)		

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HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Bollim Road, Bardez, Porvarian, Panaji-Gon-403 101. Goa State, India. Ø .: (0632) 2411322 / 2411323 * E-mail : startabgoa@rediffmail.com

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Re	port Date		26/02/2	021	474 - C	VAN W.A.							
Na	me of Client					tion DMCC al Airport Limited							
Ade	dress of Client		Mopa, Go					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	M 400 110 A A 110 110 11 11 11 11 11 11 11 11 11 11 1		The second secon		
Sar	npling Plan		SEEPL/L	D/FM	/FMT-54 Sampling Procedure No.   SEEPL/QSP-10								
Sar	nple Collected	Ву	SEEPL R	eprese	entative			^~I			erry (et al. and an array of appropriate and		
Мо	nth of Samplin	g	February	2021					T 1.4 - FILTING PR 187-711 1 / PARENTAL P				
					AMBIEN	T AIR LOCATION	١	· · · · · · · · · · · · · · · · · · ·			Married Calculations properly and a few changes properly		
Loc	ation of ambie	nt air stati	on	Ding		ashtra State)							
Ανε	erage Ambient	Temperat	ure (°C)	29.9	T	Humidity (%)		74	Latitude	N 15º47'1	11 3"		
Ave	erage Wind Spe	eed (lan/h	r)	1.5	~	Wind direction (De	g)	190	Longitude	E 73º53'1			
Ins	nstruments Used F					, RDS(APM-460) &0	1 C 100 1 101 101 101 101 101 1		**	1			
Sr.	Date of	n		PARAMETERS									
No	Sampling	Ke	port No.	ľ	PM ₁₀	PM _{2.5}		SO ₂	NO _X ·	co	SPM		
1	01/02/2021	SEE/AR/O	02/2021/0	014	42.79	13.11	•	<3,00	12.67	0.07	66.17		
2	04/02/2021	SEE/AR/C	02/2021/0	183.	57.10	17.84	4	<3.00	<9.00	0.05	74.94		
3	08/02/2021	SEE/AR/	02/2021/0	337	74.41	55.10	•	<3.00	<9.00	0.05	129.51		
4	11/02/2021	SEE/AR/O	2/2021/0	1438	45.10	15.30		3.37	10.56	0,06	98.95		
5	15/02/2021	SEE/AR/O	2/2021/0	572	51.41	28.48	-	<3,00	<9.00	0.04	79.89		
6	18/02/2021	SEE/AR/C	2/2021/0	655	41.62	29.48		3.45	9.61	0.07	71.99		
7	22/02/2021	SEE/AR/C	2/2021/0	838	30.16	16.27	4	:3,00	<9.00	0.08	61.83		
8	25/02/2021	SEE/AR/C	2/2021/0	974	32.41	11.20	<	3.00	<9.00	0.07	67.58		
	NAA	QS Limits*			100	60		80	80	4	ļ <u>.</u>		
· · · · · · · · · · · · · · · · · · ·		Units			μg/ m³	μg/m³	Į1	g/m³	μg/m³	mg/m³	μg/m³		
	ý	Nethod			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 art 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)		

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Lab. accordited by MABL, Valid up to 29.06.2021 * Codifical by ISO 3001:2015 & ISO 45001:2018

SAVE WATER SAVE UF

		Ļ	MBIEN	TAI	r Quai	ITY MONITO	RIN	S REI	PORT				
Rep	ort Date		26/02/2	021		opposition of the second se		, , , , ,					
Nar	ne of Client					tion DMCC al Airport Limited		.,		· · · · · · · · · · · · · · · · · · ·			
Add	lress of Client		Mopa, Go	a									
San	pling Plan		SEEPL/L	D/FM	r- 54	Sampling Procedu	ire No	•	SEEPL/QS	P-10			
San	ple Collected	Ву	SEEPL Re	prese	ntative								
Мог	rth of Samplin	g	February	2021									
					AMBIEN	T AIR LOCATIO	N						
Loc	ation of ambie	nt air stat	lion	Khaji	ie Amere	Porscodem(Goa St	ate)						
Ave	rage Ambient	Tempera	ture (°C)	31.5	Averag	Average Humidity (%) 77 Latitude N 15%					8.0"		
Ave	rage Wind Spo	ed (km/l	ır)	1.6	Averag	Average Wind direction (Deg) 212 Longitude E 73º49'21.4"							
Inst	ruments Used			FPS(A	APM-550)	, RDS(APM-460) &	GPS (	APM -	411)				
Sr.	Date of		M				PAR	AMET	ERS	anness and the second and the second	ang saran sa mananan sa		
No	Sampling	l K	eport No.		PM ₁₀	PM _{2,5}	S	02	NOx	CO	SPM		
1	01/02/2021	SEE/AR,	/02/2021/0	0013	54.33	24.33	4.	31	<9.00	0.07	78.66		
2	04/02/2021	SEE/AR,	/02/2021/0	0182	50.54	11.35	<3	.00	<9.00	0.06	61.89		
3	08/02/2021	SEE/AR,	/02/2021/0	0336	64,71	15.68	<3	.00	<9.00	0.05	102.80		
4	11/02/2021	SEE/AR,	/02/2021/	0437	56.44	30.16	<3	.00	10.50	0.08	100.19		
5	15/02/2021	SEE/AR,	/02/2021/0	0571	68.08	51.50	5.	14	10.05	0.06	173.62		
6	18/02/2021	SEE/AR,	/02/2021/0	0654	53.49	27.28	<3	.00	<9.00	0.06	111.41		
7	22/02/2021	SEE/AR,	/02/2021/0	0837	60.22	39.42	<3	.00	11.91	0.05	109.64		
8	25/02/2021	SEE/ÁR,	/02/2021/0	0973	41.53	22.10	<3	.00	10.46	0.07	74.48		
	NAA	QS Limits	*		100	60	8	0	80	4			
		Units			μg/ m³	μg/m³	1	/m³	μg/m³	mg/m³	μg/m³		
	}	Method			IS 5182( Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04	1	182 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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: Test methods of analyzed parameters are back side of analysis report.

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HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

① : (91-22) 2593 3321 / 2583 3322 / 2583 3323 / 2593 3324 * E-mail : prs@sadekarenviro.com / psadekar5@gmeil.com

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

BRANCH OFF.

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



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	The ball is the second of the		AMBIEI	NT A	IR QUA	LITY MONITO	)RIN	IG RI	FDORT			
Re	port Date	1971 h	2.6/02/2						LIONI	× ************************************	110,000,000	
Na	me of Client	**************************************	M/s. Me	gawid	le Construc	ction DMCC nal Airport Limited	· · · · · · · · · · · · · · · · · · ·			to and seeing the common property days are consequently below.		
Ad	dress of Client		Mopa, G	oa	men nation	nar Airport Limited						
	npling Plan		SEEPL/I		T- 54	Sampling Proc	adus	n Mar	CEEDL (O	30.40	The state of the s	
Sai	nple Collected	Ву	SEEPL R	Contract of the same of the sa	Water the second of the second	Louis 1100	CURI	E 141),	SEEPL/QS	51'-1()		
Мо	nth of Samplir	ıg	February		and the same programmer and the same and the						- waste of the bythe water in the same	
		7.0	*		AMRIEN	T AIR LOCATIO		the enterior of the state of the proper	E e l'or speriger proposition de la company (f. 1815 en les Arrighes de Anne en		and the second address of the second address and the	
Loc	ation of ambie	ent air stat	ion	Pinn		rnem (Goa State)	14	I I forman months and a second	and a large of the second section of the section of the second section of the second section of the second section of the section of the second section of the sec	~ ~		
	erage Ambient			31.2		Humidity (%)		rz d				
Ανε	erage Wind Sp	eed (km/h	ur)	2.1		Wind direction (D	(	71	Latitude	N 15º42		
	truments Used				Average Wind direction (Deg)   254   Longitude   E 73º52'16.6" (APM-550), RDS(APM-460) & GPS (APM - 411)							
Sr.	Date of		·····			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***********					
No	Sampling	Re	port No.		PM ₁₀	PARAMETERS           PM ₁₀ PM _{2.5} SO ₂ NO _X CO						
1	01/02/2021	SEE/AR/	02/2021/0	1012	52.17				NO _X	co	SPM	
2	04/02/2021		02/2021/0		72.09	30.84	<del></del>	.28	<9.00	0.05	92.56	
3	08/02/2021		02/2021/0			21,55	<3	3.00	11.98	0.08	128.14	
4	11/02/2021				93.05	28.94	3.	.05	12.67	0.07	200.94	
5	15/02/2021	***************************************	02/2021/0		65.72	24.50	3.	01	12.34	0.03	100.57	
6	18/02/2021		02/2021/0		64.25	26.53	4.	38	9.18	0.06	162.59	
7	22/02/2021		02/2021/0		71.57	12.80	<3	.00	11,89	0.05	115.05	
8	25/02/2021		2/2021/0		30.13	28.16	<3	.00	11.08	0.03	64.65	
		SEE/AR/C S Limits*	2/2021/0	972	64.52	41.24	<3	.00	12.52	0.07	111.86	
**********		Units			100	60	8	0	80	4	~	
					µg/ m ³	μg/m³		'm³	μg/m³	mg/m³	µg/m³	
	M	lethod			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5 (Pan		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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HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ● E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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



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			AMBIEN	T AI	R QUA	LITY MONITOR	UNG	6 REP	ORT				
Rep	ort Date	944 <b>(44</b> mar 14 <b>4</b> mar 14 a 1 mar 14	26/02/202	21	-								
Nar	ne of Client		M/s. Mega C/o GMR C			ion DMCC al Airport Limited							
Ada	lress of Client		Mopa, Goa										
San	ipling Plan		SEEPL/LD	/FMT-	MT-54 Sampling Procedure No. SEEPL/QSP-10								
San	ple Collected	Ву	SEEPL Rep	resen	tative								
Moi	ith of Samplin	មួ	February 2	2021			No. of the last of		ana ana ana ana ana ana ang ana ana ang ana ana	an and the first of the second decomposition of the	namen and annument and make the base of the latter of the latter		
					AMBIE	NT AIR LOCATION	J						
Loc	ation of ambie	nt air st	ation	Rajvi	l Wada T	orxem (Goa State)					and the same of th		
Ave	rage Ambient	Temper	ature (°C)	30.9	Avera	Average Humidity (%) 71 Latitude N 1					N 15º46'40.0"		
Ave	rage Wind Spe	ed (km)	/hr)	1.1	Average Wind direction (Deg) 198 Longitude E 73°50′57.2"								
Inst	management of the control of the con				APM-550	), RDS(APM-460) &C	iPS (7	4PM - 4	H11)				
Sr.	Date of		- 41				PAR.	AMETI	ers				
No	Sampling		Report No.		PM ₁₀	PM _{2,5}		SO ₂	NO _X	ÇO	SPM		
1	01/02/2021	SEE/A	R/02/2021/0	016	64.12	25.82	C	5.90	14.01	0.07	99.88		
2	04/02/2021	SEE/A	R/02/2021/0	0185	92.01	44.37	<	3.00	<9.00	0.08	214.26		
3	08/02/2021	SEE/A	R/02/2021/0	0339	92.50	27.54	٧	3.00	11.31	0.06	182.66		
4	11/02/2021	SEE/A	R/02/2021/0	0440	91.80	42,19	F	5.12	10.16	0.09	178.75		
5	15/02/2021	SEE/A	R/02/2021/0	)574	72.97	43.23	5	5.36	10.87	0.07	153.56		
6	18/02/2021	SEE/A	R/02/2021/0	0657	66.81	25.78	<	3.00	<9.00	80.0	88.77		
7	22/02/2021	SEE/A	R/02/2021/0	0840	35.36	11.44	<	3,00	9.50	0.06	65.21		
8 25/02/2021 SEE/AR/02/2021/0970					71.54	30.25	<	3.00	<9.00	0.07	105.89		
	NAAQS Limits*					60		80	80	4	-		
		Units			μg/ m³	μg/m³	11(	g/m³	μg/m³	mg/m³	µg/m³		
	Method				IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 art 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)		

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Vchopdekay

HEAD OFF. & LAB.: Plot No. A-96, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

② : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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	WORKPLACE NOISE	LEVEL N	IONITORING REPO	PRT			
Report No.	SEE/AR/02/2021/0979	SEE/AR/02/2021/0979-0986 Report Date 27/					
Name of Client	M/s. Megawide Constru C/o GMR Goa internati				THE STATE OF THE PARTY OF		
Address of Client	Mopa, Goa		T. P. I. I. Lauren, andre an extra description of the second of the seco	1974   11974   11974   11974   11974   11974   11974   11974   11974   11974   11974   11974   11974   11974	hand with the street and second		
Sampling Plan	SEEPL/LD/FMT- 54	Sampli	ng Procedure No.	SEEPL/QSP-10	Arm or or or or or		
Sample Collected By	SEEPL Representative	***************************************	the Petrologisch in Belle Belle in Sale Laterature der Secure Consideration and considerate in the American	no fere 20 (2012) (1716 a.m.n.nearann meascann marian na 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	e Selenge y a		
Date of Sampling	25/02/2021				A. Transcription of Section		

Sr. No.	Report No.	Sampling Location	Noise in dB (A)
	1100011103	(From 1.0 meter off)	Day Time
01.	SEE/AR/02/2021/0979	Zone D: Bramco Crusher	75.4
02.	SEE/AR/02/2021/0980	Zone D: Loading (at Bramco)	74.3
03.	SEE/AR/02/2021/0981	Rolling at CH:3000	82.1
04.	SEE/AR/02/2021/0982	Zone C - Ripping at CH:2300 (near SMC office)	82.7
05.	SEE/AR/02/2021/0983	Rolling at CH:2320	76.2
06.	SEE/AR/02/2021/0984	Surface Miner CH:1800	80,3
07.	SEE/AR/02/2021/0985	WMM Plant	78.0
08.	SEE/AR/02/2021/0986	Hot Mix Plant - 500 KVA DG Set	66.6

- Occupational Exposure Limit for noise as per OSHA is 85dB (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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HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.L.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

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Gazetted Dy 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 ②: (0832) 2437048 / 2437164

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • си ио. ⊔₄5209мн₁998РТС-116379



8-306/307, Plot No. 61, Patel Estate, Reis Magos, Verore, Alto, Old Bellim Road, Bardez, Porvorim, Panaji-Oos-403 101, Goa State, India. (D.: (0832) 2411322 / 2411323 # E-mail: starlabgoa@rediffmail.com

SAVE WHITER SAVE UFC

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	NOISE LEVEL MONITORI	NG REPORT					
Report No. SEE/AR/02/2021/0660-0661, 0458, 0673-0674, 0457, 0444, 0998, 1085,0443,0999, 1086 Report Date 01/03/2021							
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Address of Client	Mopa, Goa						
Sample Collected By	Sample Collected By SEEPL Representative						
Sampling Plan	SEEPL/LD/FMT- 54 Samp	ling Procedure No.	SEEPL/QSP-10				

Sr.	Date of	Report No.	Station	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
No	Monitoring	1	ID.			Lmin	Lmax	Leq	Ĺmin	Lmax	Leq
1.	18/02/2021	SEE/AR/02/2021/0660	G-N1	-	Мора	32.0	77.3	61.0	38.3	62.0	56.7
2:	18/02/2021	SEE/AR/02/2021/0661	G-N2	l	Shemecheadvan	30.8	72.1	53.0	33.0	65.7	58.4
3.	12/02/2021	SEE/AR/02/2021/0458	G-N3	С	Nagzar	30.0	69.3	52.2	30.0	74.6	52.3
4.	19/02/2021	SEE/AR/02/2021/0673	G-N4	R	Purva Casarvarnem	30,3	74.6	49,3	32,6	68,0	41.5
5.	19/02/2021	SEE/AR/02/2021/0674	G-N5	Ŕ	Chandel	30.0	73,2	51.5	30,0	65.2	42.7
6.	12/02/2021	SEE/AR/02/2021/0457	G-N6	R	Khajne Amere Porscodem	31.2	57.6	41.7	31.8	53.6	36.4
7.	11/02/2021	SEE/AR/02/2021/0444	G-N7	R	Warkhand	30.0	59.4	52.8	33.0	52.5	40,5
В.	26/02/2021	SEE/AR/02/2021/0998	G-N8	С	Rajvil Wada Torxem	30,0	69,9	54.6	30.1	59.8	49.6
9.	27/02/2021	SEE/AR/02/2021/1085	Ġ-N9	С	Village Panchayat Tamboxem -Mopa- Ugvem	30,1	70,9	44.2	30.0	67.8	47.2
10.	11/02/2021	SEE/AR/02/2021/0443	M-N1	R	Satarda	30,3	60.9	42.0	37.0	46.5	40.9
11.	26/02/2021	SEE/AR/02/2021/0999	M-N2	R	Dingna	30.0	56,5	43.1	30.3	47.9	36.5
12.	27/02/2021	SEE/AR/02/2021/1086	M-N3	R	Netarde	30.1	60.4	51.4	30.1	63.8	41.3

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

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

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

- Day time is reckoned in between 6,00am to 9,00pm and night time is reckoned in between 9,00pm to 6,00am.
- *dB(A) 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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HEAD OFF, & LAB.: ; Piot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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SAVE WATER SAVE UFE

	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/02/2021/296	Report Date	- 25/02	2/2021			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa	THE STATE OF THE S	The state of the s				
Order / Reference	As per dated 18/02/2021	As per dated 18/02/2021 Environmental Condition of Lab		Humidity %			
William Commence of the Commen	to the second se	The state of the s	28,1	65			
Sampling point	PTB Tank						
Sample details	Drinking Water	Date of collection	18/02	/2021			
Sample Collected by	SEEPL Representative	Sample Received On	18/02	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/	25/02/2021			
Sample Container	Glass bottle	Sample Quantity	1000 i	1000 mi			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN .	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FOR WATER SAMPLE						
Report No.	SEE/02/2021/297	Report Date	25/	02/2021				
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa							
Code (1)-favere	An man distant 40/00/0004	2021 Environmental Condition of Lab		Humidity %				
Order / Reference	As per dated 18/02/2021	Elialiotiticitat condition of rap	28.1	65				
Sampling point	Drinking Water tank at Run	way CH: 2700						
Sample details	Drinking Water	Date of collection	18/	02/2021				
Sample Collected by	SEEPL Representative	Sample Received On	18/	18/02/2021				
Analysis Started On	18/02/2021	Analysis Completed On	25/	25/02/2021				
Sample Container	Glass bottle	Sample Quantity	100	1000 ml				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN Absent		MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44,5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23rdEdition) 9221-G

Note: Test results related only to the sample tested.

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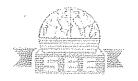
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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/02/2021/299	Report Date	25/02	/2021			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa		and the state of t	117 to 144 to 14			
Order / Reference	r / Reference As per dated 18/02/2021 Environmental Condition of Lab		Temp ⁰ C	Humidity %			
erronant da vill da Valland i II di Sayara que resega que este constituidad de Nada de Arabina de Say i de Los des des destendad.			28.1	65			
Sampling point	ATC Tank						
Sample details	Drinking Water	Date of collection	18/02	/2021			
Sample Collected by	SEEPL Representative	Sample Received On	18/02/	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/	25/02/2021			
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.	1. MPN Abs		MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FOR WATER SAMPLE							
Report No.	SEE/02/2021/300	Report Date	Report Date						
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa								
O. J. J. D. J. D. J.	4 dated 40/00/2004	2/2021 Environmental Condition of Lab		ip ⁰ C	Humidity %				
Order / Reference	As per dated 18/02/2021			8.1	65				
Sampling point	LSC Labour Colony								
Sample details	Drinking Water	Date of collection		18/02/	/2021				
Sample Collected by	SEEPL Representative	Sample Received On	MARIE IN U. I. A SEPT. MARIE MARIE VALUE OF THE PROPERTY.	18/02/2021					
Analysis Started On	18/02/2021	Analysis Completed On	Analysis Completed On		25/02/2021				
Sample Container	Glass bottle	Sample Quantity	Sample Quantity						

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	MPN	Absent	MPNIndex/100mi	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent.	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested,

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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/02/2021/301	Report Date	25/02	/2021			
Name of Client	ent M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client Mopa, Goa							
Order / Reference	As per dated 18/02/2021	Environmental Condition of Lab	Temp OC	Humidity %			
	715 per duted 10/02/2021	Environmental Condition of Eap	28.1	65			
Sampling point	VNC Colony						
Sample details	Drinking Water	Date of collection	1.8/02	18/02/2021			
Sample Collected by	SEEPL Representative	Sample Received On	18/02/	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/	25/02/2021			
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	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FOR WATER SAMPLE						
Report No.	Report Date	2	25/02/2021					
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa							
Order / Reference	An participal 49/00/2004	Environmental Condition of Lab	Temp ^o C		Humidity %			
Order / Reference	As per dated 18/02/2021	5.1 Environmental countrion of cap			65			
Sampling point	R.R Canteen							
Sample details	Drinking Water	Date of collection		18/02/2021				
Sample Collected by	SEEPL Representative	Sample Received On		18/02/2021				
Analysis Started On	18/02/2021	Analysis Completed On	2	25/02/2021				
Sample Container	Glass bottle	Sample Quantity	,	1000 ml				

Microbiological Parameters

Sr. No.	Parameter	Result	Úniť	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FOR WAT	ER SAMPLE				
Report No. SEE/02/2021/303			Report Date			25/02/2021	
Name of Client  M/s. Megawide Construction DMCC  C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa			0.000 to 5 decided do 5 miles p ₁ t _{1 10 m}	#4.00 - 000 - 000 00 00 00 00 00 00 00 00 00 -	*** The Mark To a Control of the Con	
Order / Reference	As per daled 18/02/2021	Environmen	ronmental Condition of Lab		p o C	Humidity %	
- Corporation and the Corp	710 por dettod 10/02/2021	10/02/2021 Elivinosmicinal Goshdikovi (i) Eab			3.1	65	
Sampling point	Borewell I						
Sample details	Ground Water	Date	of collection	100 Mg 11 h at 2	18/02/	2021	
Sample Collected by	SEEPL Representative	Sam	Sample Received On		18/02/2021		
Analysis Started On	18/02/2021	Anal	Analysis Completed On		25/02/2021		
Sample Container	Glass bottle + PVC Can	Sam	Sample Quantity		1000 ml + 4000ml		

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i nom	וביתו	Lacting
OHOUR.	i vai	Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.76	-	6.5 - 8.5	IS 3025 (Part 11); 1983 (RA 2012)
2.	Turbidity	0.53	NTU	1,00	IS 3025 (Part 5); 1983 (RA 2012)
3.	Taste	Agreeable	-	Not Specified	APHA( 23rdEdition ) 2160 B
4.	Color	<1,00	Hazen unit	Not Specified	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	-	Not Specified	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	48.00	mg/lit	200.00	APHA( 23rdEdition ) 2320 B
7.	Total Dissolved Solids	176.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as CI	15.51	mg/lit	250.00	APHA( 23rd Edition ) 4500 Cl-B
9.	Sulphate as SO ₄	<5.00	mg/lit	200,00	APHA( 23 rd Edition ) 4500 SQ ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	86.00	mg/lit	200.00	APHA(23rdEdition) 2340 C
12.	Ammonia	<0,50	mg/lit	0.50	APHA(23rdEdition) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991
	1.0		187	- A Day (10)	

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Report No.	SEE/02/2021/303	Report Date	25/02/2021		
Order / Reference	As per dated 18/02/2021	Sample Received On	18/02/2021		
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA(23 rd Edition) 4500 CF C
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	APHA( 23rdEdition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA(23 rd Edition) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23 rd Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23rd Edition ) 4500 CN D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA( 23rdEdition ) 5540 – C
Vietal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA(23rdEdition) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23rdEdition ) 3120 B
22.	Boron as B	0.01	mg/lit	0.50	APHA( 23rdEdition ) 3120 B

20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23rd Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23rd Edition ) 3120 B
22.	Boron as B	0.01	mg/lit	0.50	APHA( 23 rd Edition ) 3120 B
23.	Calcium as Ca	17.63	mg/lit	75.00	APHA(23rdEdition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23 rd Edition ) 3120 B
25.	Iron as Fe	0.68	mg/lit	1.00	APHA( 23 rd Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	10.24	mg/lit	30.00	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23 rd Edition ) 3120 B
30.	Zinc as Zn	0.03	mg/lit	5.00	APHA( 23 rd Edition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 3120 B
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Report No.	SEE/02/2021/303	Report Date	25/02/2021			
Order / Reference	As per dated 18/02/2021	Sample Received On	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Microbiological Parameters

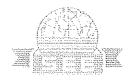
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44,5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FOR WATER SAMPLE				
Report No.	SEE/02/2021/304	Report Date	Report Date		25/02/2021	
Name of Client	1	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa					
Order / Reference	As par detail 19/00/2004	As per dated 18/02/2021 Environmental Condition of Lab		0 C	Humidity %	
Order / Reference	As per dated Tolozizuz I			.1	65	
Sampling point	Borewell II					
Sample details	Ground Water	Date of collection		18/02/2021		
Sample Collected by	SEEPL Representative	Sample Received On		18/02/2021		
Analysis Started On	18/02/2021	Analysis Completed On		25/02/2021		
Sample Container	Glass bottle + PVC Can	Sample Quantity	Sample Quantity		1000 ml + 4000ml	

**Chemical Testing** 

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	6.68	-	6.5 - 8.5	APHA( 23rdEdition ) 4500 H+B
2.	Turbidity	0.66	NTU	1.00	APHA(23 rd Edition) 2130 B
3.	Taste	Agreeable	_	Agreeable	APHA( 23 rd Edition ) 2160 B
4.	Color	<1,00	Hazen unit	5,00	APHA( 23dedition ) 2120 B
5.	Odour	Agreeable	_	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	60.00	mg/lit	200.00	APHA( 23 rd Edition ) 2320 B
7.	Total Dissolved Solids	189.00	mg/lit	500,00	APHA( 23 rd Edition ) 2540 C
8.	Chlorides as Cl	18.01	mg/lit	250,00	APHA( 23rdEdition ) 4500 Cl-B
9.	Sulphate as SO ₄ -	<5.00	mg/lit	200.00	APHA( 23 rd Edition ) 4500 SO₄E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23 rd Edition ) 4500 S ² F
11.	Total Hardness as CaCO ₃	82.00	mg/lit	200,00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/litEng	0,50	APHA( 23 ^a Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	/jijig/lit	ें ें 0.50	Clause 6 of IS 3025 (Part 39) : 1991.

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Report No.	SEE/02/2021/304	Report Date	25/02/2021		
Order / Reference	As per dated 18/02/2021	Sample Received On	18/02/2021		
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CI- C
15,	Nitrate as NO ₃	<1.00	mg/lit	45.00	APHA( 23 rd Edition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23rd Edition ) 4500 F D
17.	Phenolic compound	<0,001	mg/lit	0.001	APHA( 23rd Edition ) 5530-B,C
18,	Cyanide	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA( 23rd Edition ) 5540 - C
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23™Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23d Edition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0,50	APHA(23 rd Edition) 3120 B
23.	Calcium as Ca	15.23	mg/lít	75.00	APHA( 23 rd Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23 rd Edition ) 3120 B
25.	Iron as Fe	0.40	mg/lit	1.00	APHA( 23rd Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23rdEdition ) 3120 B
27.	Magnesium as Mg	10.72	mg/lit	30.00	APHA(23 rd Edition) 3500Mg B
28,	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA(23 rd Edition) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA(23rdEdition) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	ÁPHA(23rdEdition) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23rdEdition) 3120 B
33,	Copper as Cu	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 3120 B

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Report No.	SEE/02/2021/304	Report Date	25/02/2021			
Order / Reference	As per dated 18/02/2021	Sample Received On	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021			
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 37ºC for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	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.

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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/02/2021/305	Report Date	25	5/02/2021			
Name of Client		M/s, Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
and the second s	A 1 2 1 4 A 2 A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A 2 A A A A A A A A A A A A A A A A A A A A	Environmental Candition of Lah	Temp ⁰	C Humidity %			
Order / Reference	As per dated 18/02/2021	dated 18/02/2021 Environmental Condition of Lab		65			
Sampling point	UG Water tank( Water Intal	ke From Tillari CanalTIP)					
Sample details	Surface Water	Date of collection	18	18/02/2021			
Sample Collected by	SEEPL Representative	Sample Received On	18/02/2021				
Analysis Started On	18/02/2021	Analysis Completed On	2!	25/02/2021			
Sample Container	Glass bottle + PVC Can	Sample Quantity	1(	000 ml + 4000ml			

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.83		6.5 - 8.5	APHA( 23 rd Edition ) 4500 H+-B
2.	Turbidity	0,62	NTU	1.00	APHA( 23 rd Edition ) 2130 B
3.	Taste	Agreeable	-	Agreeable	APHA( 23rd Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	_	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	50,00	mg/lit	200.00	APHA( 23rdEdition ) 2320 B
7.	Total Dissolved Solids	162.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as Cl	18.52	mg/lit	250.00	APHA( 23rdEdition ) 4500 Cl B
9,	Sulphate as SO ₄ -	<5.00	mg/lit	200.00	APHA( 23 rd Edition ) 4500 SO ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23 rd Edition ) 4500 S ² F
11.	Total Hardness as CaCO ₃	90,00	mg/lit	200.00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23 rd Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0,1	mg/lit	Q.50	Clause 6 of IS 3025 (Part 39): 1991

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310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (0832) 2437048 / 2437164

Report No.	SEE/02/2021/305	Report Date	25/02/2021			
Order / Reference	As per dated 18/02/2021	Sample Received On	18/02/2021			
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021			
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Air	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Chemical Testing	The state of the s	DOLL CHIMED				

Chemical	Testina

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nii	mg/lit	0.50	APHA(23 rd Edition) 4500 CI-C
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	APHA( 23 rd Edition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23 rd Edition ) 4500 F D
17.	Phenolic compound	<0,001	mg/lit	0.001	APHA( 23 rd Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA(23/4Edition) 4500 CN-D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23 rd Edition) 5540 – C
	Analysis				1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
20.	Aluminium as Al	0.01	mg/lit	0.03	APHA(23rdEdition) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA(23rdEdition) 3120 B
23.	Calcium as Ca	19.23	rng/lit	75.00	APHA(23 rd Edition) 3500CaB
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23™Edition ) 3120 B
25.	Iron as Fe	0.15	mg/lit	1.00	APHA(23 rd Edition) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
27.	Magnesium as Mg	10.24	mg/lit	30.00	APHA( 23d Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA(23rdEdition) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA(23rdEdition) 3120 B
31.	Sodium as Na	<1.00	mg/lit		APHA(23 rd Edition) 3120 B
2. 1	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
	Copper as Cu	<0.01		Not Specified	APHA( 23 rd Edition ) 3120 B
		~0,01	mg/lit	0.05	APHA(23rdEdition) 3120 B

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D-nad No.	SEE/02/2021/305	Report Date	25/02/2021	
Report No. SEE/02/2021/305  Order / Reference As per dated 18/02/202		Sample Received On	18/02/2021	
Analysis Started On	18/02/2021	Analysis Completed On	25/02/2021	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			

Microbiological Parameters

Sr. No.	Parameters Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 ^{ed} Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23rdEdition) 9221-G

Note: Test results related only to the sample tested.

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Lab. accredited by MABL, Valid up to 29.06.2021 & Certified by ISO 9001:2015 & ISO 45001:2018

SAME HATTER SAME THE

	ANALYSIS REP	ORT FOR	WATER SAMPLE			
Report No.	SEE/02/2021/292		Report Date	23/02/2021		
Name of Client	M/s. Megawide Construction C/o GMR Goa Internationa		imited		THE WAS THE PROPERTY OF THE PROPERTY OF A PARTY OF THE PROPERTY OF THE PROPERT	
Address of Client	Мора, Goa			hannes of the state of the stat	eners to the form the contract demonstrate	
Order / Reference	As per dated 18/02/2021	Environmental Condition of Lab		Temp O C	Humidity %	
	As per deted 10/02/2021			28.1	65	
Sampling Plan	SEEPL/LD/FMT- 54 Samplir		ig Procedure No.	SEEPL/QSP-10		
Sampling point	STP		74, 5, 7+4 (4 - many samples and 1 per 10   1 per 10   1 miles and 1 miles and 1 per 10   1 per 10   1 per 10			
Sample details	Inlet Water		Date of collection	18/02/20	18/02/2021	
Sample Collected by	SEEPL Representative		Sample Received On 18/0		/02/2021	
Analysis Started On	18/02/2021		Analysis Completed On 23/02		21	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 mi	1000 ml + 1000ml	

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1,	РН	6.52	**	APHA( 23dedition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	1040.00	mg/lit	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	271.32	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	315.00	mg/lit	APHA( 23™Edition ) 2540-D
5.	Oil & Grease (O & G)	28,00	mg/lit	APHA( 23rdEdition ) 5520-O &G
6,	Ammonia	14.00	mg/lit	APHA( 23rdEdition ) 4500 NH ₃ B C
7.	Phosphate as PO ₄	39.78	mg/lit	APHA( 23rdEdition ) 450 P C

Note: Test results related only to the sample tested,

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① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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SINCULUIGE SEVEUE

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	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/02/2021/293		Report Date	23/02/20	)21	
Name of Client	M/s, Megawide Construction C/o GMR Goa International		imited			
Address of Client	Mopa, Goa					
	1.000000	F	annutal Candillan of Lah	Temp ⁰ C	Humidity %	
Order / Reference	As per dated 18/02/2021	FUAILO	nmental Condition of Lab	28.5	68	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSF	·-10	
Sampling point	STP	,	And an analysis of the second			
Sample details	Outlet water		Date of collection	18/02/20	021	
Sample Collected by	SEEPL Representative	Sample Received On 18/02/2021				
Analysis Started On	18/02/2021	errorennen av o errord 🕽 / militabilitationis	Analysis Completed On 23/02/2021			
Sample Container	Glass Bottle + PVC Can	:	Sample Quantity	1000 ml	+ 1000ml	

#### **Chemical Parameters**

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	рН	7.41		5.5 - 9.0	APHA( 23 rd Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	112.00	mg/lit	250.00	APHA( 23 rd Edition ) 5220-8
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	21.00	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	90,00	mg/lit	100.00	APHA( 23rd Edition ) 2540-D
5.	Oil & Grease (O & G)	5.00	mg/lit	10.00	APHA( 23 rd Edition ) 5520-O &G
6,	Ammonia	6.16	mg/lit	50.00	APHA( 23™Edition ) 4500 NH ₃ B C
7;	Phosphate as PO₄	4.10	mg/lit	5.00	APHA( 23 rd Edition ) 450 P C

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

Note: Test results related only to the sample tested.

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		AMBIEN	IT AI	R QUAL	ITY MONITOF	RING F	(EP	ORT	**************************************	New Management 11 February	
Rep	ort Date	30/01/2021							· · · · · · · · · · · · · · · · · · ·		
Nan	ne of Client	M/s. Megawid C/o GMR Goa									
Add	lress of Client	Mopa, Goa									
San	nple Collected	By SEEPL Repres	entatí	ve			į				
Mor	nth of Samplin	g January 2021	TIMBUUM	MANAGEM U. 1. 1997. Jun 64 P. 1					A		
			•	AMBIEN	TAIR LOCATION	J					
Loc	ation of ambie	nt air station	Мор	a(Goa State	)		***************************************				
Ave	rage Ambient	Temperature (°C)	29.7	Average Humidity (%) 76 Latitude N 15°44'5						<del></del> 50.3"	
Ave	rage Wind Spe	eed (km/hr)	1.2	Average Wind direction (Deg) 245 Longitude E 73°51'37.8"							
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &0	SPS (APN	1 – 4	11)			
Sr.	Date of	_				PARAM	ETE	RS			
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂		NOx	co	SPM	
1	04/01/2021	SEE/AR/01/2021/0	179	46.66	27.51	7.91		<9.00	0.05	86.77	
2	07/01/2021	SEE/AR/01/2021/0	278	22.50	8.72	<3.00	)	13.63	0.02	31.22	
3	11/01/2021	SEE/AR/01/2021/0	414	28.58	23.48	<3.00	)	12.55	0.05	55.80	
4	14/01/2021	SEE/AR/01/2021/0	503	48.13	33.28	<3.00	)	33.01	0.07	81.41	
5	18/01/2021	SEE/AR/01/2021/0	649	56.38	25.16	3.22		10.92	0.07	81.54	
6	21/01/2021	SEE/AR/01/2021/0	737	67.46	26,05	16.24	1-	17.67	0.06	53.51	
7	25/01/2021	SEE/AR/01/2021/0	850	57.36	12.03	13.7	1	13.90	0.08	87.80	
8	28/01/2021	SEE/AR/01/2021/0	911	63.10	22.32	<3.00	)	<9.00	0.05	85.42	
	NAAQS Limits*			100	60	80		80	4	-	
	Units			μg/ m³	μg/m³.	μg/m³		μg/m³	mg/m³	μg/m³	
		Method	***************************************	IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (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

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

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

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

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		AMBIE	NT A	IR QUAL	ITY MONITO	RING RE	PORT			
port Date		30/01/202	1		**************************************					
me of Client		M/s. Megaw C/o GMR Go	ride Co a inte	onstruction rnational Ai	DMCC rport Limited					
dress of Client		Mopa, Goa			POR VALARETOON					
nple Collected	Ву	SEEPL Repr	esenta	tive		<del></del>		**************************************		
nth of Samplin	g							The second second second	713 & 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
		<u></u>		AMBIEN	T AIR LOCATIO	V	***************************************			
		-	Shen			************				
			30.6	Average Humidity (%) 73 Latitude N 15°44'06.1"						
				Average	Wind direction (D	eg) 219	Longitude	<del> </del>		
ruments Used	1		FPS(	APM-550), I	RDS(APM-460) &G	PS (APM -		1		
Date of		Papart Na				PARAME"	ΓERŚ			
		report no.		PM ₁₈	PM _{2.5}	SO₂	NO _x	CO	SPM	
	SEE/	AR/01/2021/0	0178	88.35	31.35	3.89	15.81	0.07	135.41	
	SEE/	AR/01/2021/0	)277	70.73	15.34	<3.00	12.08	0.06	86.07	
	SEE/	AR/01/2021/(	)413	74.53	17.32	<3.00	16.50	0.08	99.45	
	SEE/	AR/01/2021/(	0502	84.37	31.46	4.77	16.52	0.06	160,23	
	SEE/	AR/01/2021/0	648	89.81	42.28	<3.00	15.55	0.07	132.09	
	SEE/	AR/01/2021/(	735	88.50	28.73	26.07	15.83	0.08	117,23	
	SEE/	AR/01/2021/0	849	87,08	25,41	10.50	15.70	0.06	155.42	
			910	74.82	28.73	<3.00	15,03	0.07	104.55	
	me of Client dress of Client apple Collected anth of Samplin cation of ambie erage Ambient brage Wind Spec truments Used Date of Sampling 04/01/2021 11/01/2021 14/01/2021 18/01/2021 21/01/2021	me of Client clress of Client mple Collected By nth of Sampling ration of ambient air erage Ambient Temperage Wind Speed (kn truments Used  Date of Sampling  04/01/2021 SEE/ 11/01/2021 SEE/ 14/01/2021 SEE/ 18/01/2021 SEE/ 21/01/2021 SEE/ 25/01/2021 SEE/	SEE/AR/01/2021/02   SEE/AR/01/2021/02	Month   Mont	Mopanism	M/s. Megawide Construction DMCC	M/s. Megawide Construction DMCC	M/s. Megawide Construction DMCC   C/o GMR Goa international Airport Limited	M/s. Megawide Construction DMCC	

60

 $\mu g/m^3$ 

Lab SOP NO .:

SEE/LD/SOP-AA-04

80

 $\mu g/m^3$ 

IS 5182

(Part 02)

80

 $\mu g/m^3$ 

IS 5182

(Part 06)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

**NAAQS** Limits*

Units

Method

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

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100

 $\mu g/m^3$ 

IS 5182(

Part 23)

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

Analysed by Dipali Sawant

Vchopdekar Authorized Signatory Varsha Pole

0.07

4

mg/m³

IS 5182(

Part 10)

104.55

 $\mu g/m^3$ 

IS 5182(

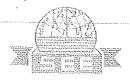
Part IV)

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Vorem, Alto, Old Betim Road, Bardez, Porvorim. Panaji-Goa-403 101. Goa State, India. 10 :: (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

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	AMBIENT AIR QUALITY MONITORING REPORT												
Re	port Date	30/01/2021		iii QOA	TILL MOMIC	MIN	G KE	PURI					
[	me of Client	M/s. Megawi	de Coi	istruction	DMCC rport Limited								
Ad	dress of Client	Mopa, Goa	miei	national Ai	rport Limited					.,,			
Sar	nple Collected		sentat	ive									
Мо	nth of Samplir	g January 2021											
AMBIENT AIR LOCATION													
	cation of ambie		Nag:	zar(Goa Sta	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1.8							
Ave	erage Ambient	Temperature (°C)	30.2		e Humidity (%)	-	76	Latitude	N 4 Fator	A = = = = =			
	erage Wind Sp		1.4	4 Average Wind direction (Deg) 221 Longitude F 7305113									
	truments Used		FPS(	APM-550)	, RDS(APM-460) &	GPS (	APM - 4	111)	[E/3°31]	14.22"			
Sr. No	Date of P						AMETI						
	Sampling			PM ₁₀	PM _{2,5}		SO ₂	NO _x	CO	SPM			
1	04/01/2021	SEE/AR/01/2021/0		57.31	40,63	5	1,14	10.74	0.07	116.07			
2	07/01/2021	SEE/AR/01/2021/0		18.34	9.25	<	3.00	<9.00	0.05	27.59			
3	11/01/2021	SEE/AR/01/2021/0		33.52	28.33	<	3.00	16,51	0.03	+			
4	14/01/2021	SEE/AR/01/2021/0		47.44	11.50		.26	9,24		61.85			
5	18/01/2021	SEE/AR/01/2021/0	642	49.32	20.14	<del> </del>	3.00	17,88	0.06	58.14			
6	21/01/2021	SEE/AR/01/2021/0	729	42.05	27.45	ļ	3.00	<9.00	0.07	69.46			
7	25/01/2021	SEE/AR/01/2021/0	843	49.92	8.21	ļ	13	<9.00	0,09	69.50			
8	28/01/2021	SEE/AR/01/2021/0	904	69.24	18.76		.00	<9.00	0.08	94.88			
	NAA	QS Limits*		100	60		30	80	0.06 4	100.34			
		Units		μg/ m³	rig/m³ ug		/m³	trg/m³					
	N	lethod		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS :	182 t 02)	IS 5182 (Part 06)	mg/m ³ IS 5182( Part 10)	μg/m³ 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.

Analysed by Dipali Sawant

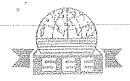
VchopdeKar **Authorized Signatory** Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisən Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

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



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		AMBIEN	IT AI	R QUALI	TY MONITORII	VG REF	ORT				
Rep	ort Date	30/01/2021		. P. 2 . 4	addad I I PP 01 0						
Nan	ne of Client	M/s. Megawid C/o GMR Goa									
Add	ress of Client	Mopa, Goa									
San	ple Collected I	By SEEPL Repres	entati	ve							
Mor	ith of Sampling	January 2021									
				AMBIENT	AIR LOCATION						
Loca	ation of ambier	nt air station	Satar	da(Mahara	shtra State)						
Ave	rage Ambient	Temperature (°C)	29,3	Average Humidity (%) 74 Latitude N15°45'0					.3"		
Ave	rage Wind Spe	ed (km/hr)	0.8	Average Wind direction (Deg)   231   Longitude   E73º48'00.2"							
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &GPS	S (APM –	411)				
Sr.	Date of				P.	ARAMET	ERS				
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	co	SPM		
1	04/01/2021	SEE/AR/01/2021/	0171	62,89	46.22	6.92	<9.00	0.08	141.60		
2	07/01/2021	SEE/AR/01/2021/	0270	28.82	14.22	<3.00	<9.00	0.05	12.42		
3	11/01/2021	SEE/AR/01/2021/	0406	50.90	30.13	<3,00	13.93	0.05	82.03		
4.	14/01/2021	SEE/AR/01/2021/	0495	44.63	13.27	<3.00	13.69	0.07	60.35		
5	18/01/2021	SEE/AR/01/2021/	0641	41.35	15.21	<3.00	21.03	0.06	56.56		
6	21/01/2021	SEE/AR/01/2021/	0728	61.86	42.91	3.52	<9.00	0.03	74.77		
7	25/01/2021	SEE/AR/01/2021/	0842	63.91	19.66	<3.00	<9.00	0.05	97.37		
8	28/01/2021	SEE/AR/01/2021/	0903	51.02	20.16	<3,00	<9.00	0.08	74.32		
	NAA	QS Limits*		100	60	80	80	4			
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³		
	` .	Viethod	1	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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Dipali Sawant

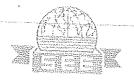
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HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle industrial Area, Thane - 400 604, Maharashtra State, India.

② : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ● E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (0832) 2437048 / 2437164



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27. Lawrence		AMBIE	NT A	AIR OUZ	LITY MONITO	אומו	IC 0.	*DAR-					
Re	port Date	30/01/2021		40,	TELL MOMIC	/KII	AQ KF	PORT					
Na	me of Client	M/s. Megaw	ide Co	nstruction	DMCC					The state of the s			
	dress of Clien	C/O GMR Go	a inter	national A	irport Limited								
		c Mopa, Goa											
	mple Collected			tive									
IVIO	nth of Sampli	ng January 2021	<u> </u>				···						
AMBIENT AIR LOCATION  Location of ambient air station Netarde (Maharachtra Stat.)													
Loc	cation of ambi	ent air station	Neta	arde(Maha	rashtra State)	14							
AVE	erage Ambient	Temperature (ºC)	28,9		Humidity (%)		72		**************************************				
	erage Wind Sp		1.2	Average Wind direction (D. )									
	truments Used	l	FPS(	(APM-550)	, RDS(APM-460) &	CBC (	V DIV	Longitude	E 73º53	'47.0"			
Sr. Vo	Date of	Report No.					AFM =						
	Sampling	report No.		PM ₁₀	PM _{2.5}	7	SO ₂		<u></u>				
1	04/01/2021	SEE/AR/01/2021/0	0176	77.46	43.10	<3.00		NO _x	CO	SPN			
2	07/01/2021	SEE/AR/01/2021/0	275	21.93	9.43	-		<9.00	0.05	155.0			
3	11/01/2021	SEE/AR/01/2021/0		37.97	22.85	<del> </del>	3.00	<9.00	0.07	42.42			
1	14/01/2021	SEE/AR/01/2021/0		30.56		<del> </del>	3.00	<9.00	0.06	67.15			
5	18/01/2021	SEE/AR/01/2021/0		33.11	16.20	┼	3.00	<9.00	0.06	70.20			
ĵ	21/01/2021	SEE/AR/01/2021/0		34.63	11.79		3.00	<9.00	0.05	55.79			
	25/01/2021	SEE/AR/01/2021/0		36.26			0.98	<9.00	0.08	19.16			
1	28/01/2021	SEE/AR/01/2021/0		34.42	27,29 10.50		3.00	<9.00	0.03	120.32			
	NAAC	QS Limits*		100	10.50		3.00	<9.00	0,05	44.92			
		Units		μg/ m³			30	80	4				
	IV.	lethod		IS 5182(	1			μg/m³	mg/m³	μg/m³			
				Part 23)	SEE/LD/SOP-AA-04		o182 rt 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)			

*NATIONAL AMBIENT AIR STANDARDS (2009)

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Analysed by Dipali Sawant

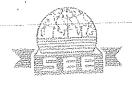
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BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (8832) 2437048 / 2437164



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SAVE WATER SAVE LIFE

		AMBIEN	IT AI	R QUALI	ry monitor	ING R	EPORT		
Rep	ort Date	30/01/2021							
Nan	ne of Client	M/s. Megawio C/o GMR Goa							
Add	ress of Client	Mopa, Goa							
San	ple Collected B	y SEEPL Repres	entati	<i>т</i> е					
Mor	nth of Sampling	January 2021							
				AMBIENT	AIR LOCATION	İ			
Loc	ation of ambien	t air station	Ding	na(Maharas)	ntra State)				
Ave	rage Ambient T	`emperature (°C)	29.5	Average H	umidity (%)	69	Latitude	N 15º47'1	.1.3"
Ave	rage Wind Spe	ed (km/hr)	1.1	Average W	/ind direction (De	g) 201	Longitude	E 73º53'1	.1.6"
Inst	ruments Used		FPS(	APM-550), F	RDS(APM-460) &G	PS (APM	<b>411</b> )		
Sr.	Date of					PARAM	ETERS		
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	co	SPM
1	04/01/2021	SEE/AR/01/2021/	<3.00	<9.00	0.08	113.92			

Sr.	Date of	Report No.			PARAMETE	RS		
No	Sampling	Report No.	PM ₁₀	PM _{2,5}	SO ₂	NOx	CO	SPM
1	04/01/2021	SEE/AR/01/2021/0175	64.07	37.13	<3.00	<9.00	80.0	113.92
2	07/01/2021	SEE/AR/01/2021/0274	18.95	16.92	<3.00	<9.00	0.06	44.19
3	11/01/2021	SEE/AR/01/2021/0410	27.08	23.14	<3.00	<9.00	0.05	74.71
4	14/01/2021	SEE/AR/01/2021/0499	30.57	14.20	4.07	12.33	0.07	64.20
5	18/01/2021	SEE/AR/01/2021/0645	56.81	27.07	9.02	12.93	0,03	100.79
6	21/01/2021	SEE/AR/01/2021/0732	46.59	31.55	<3.00	15.72	0.05	84.93
7	25/01/2021	SEE/AR/01/2021/0846	60.97	43.91	4.96	<9.00	0.07	104.88
8	28/01/2021	SEE/AR/01/2021/0907	54.90	12.39	<3.00	<9.00	0.06	67.29
	NAAQS Limits*		100	60	80	80	4.	
		Units	μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	µg/m³
		Method	IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)

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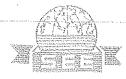
Analyséd by Dipali Sawant Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 504. Maharashtra State, India.

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		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AMBIEN	IT A	IR QUA	LITY MONITO	)RIN	G RE	DORT.	.,	at 6.1
Re	port Date		30/01/2021					U 11L	I ON I		
Na	me of Client		M/s. Megawi C/o GMR Goa	de Co	nstruction	n DMCC Airport Limited		·			
	dress of Client		Mopa, Goa			in pore amileu					
	nple Collected		SEEPL Repre	senta	tive						
Мо	nth of Samplir	ıg	January 2021								
AMBIENT AIR LOCATION											
	ation of ambid			Kha		Porscodem (Goa S					
Ave	erage Ambient	Temp	erature (°C)	29.5		ge Humidity (%)	orate)	85	Latitude	TNAFACO	
Ave	erage Wind Sp	eed (k	m/hr)	0.9	A						
Inst	Instruments Used F				APM-550	), RDS(APM-460) 8	<u> 206)</u> ВСРS (.		Longitude	E 73º49'2	21.4"
Sr.	Date of		D( ))					AMET			
No	Sampling		Report No.		PM ₁₀	PM _{2,5}	SC		NO _X	ÇO	0011
1	04/01/2021	SEE/	AR/01/2021/0	174	43.29	25.57	3.34		<9.00		SPM
2	07/01/2021	SEE/	AR/01/2021/0	273	24.78	11.23	<3,		<9.00	80.0	99.32
3	11/01/2021	SEE/	AR/01/2021/0	409	30.82	17.39	<3,			0.05	38.91
4	14/01/2021	· · · · · · · · · · · · · · · · · · ·	AR/01/2021/0		40.37	24.58	ļ		9.23	0.03	48.21
5	18/01/2021		AR/01/2021/0		33.93	19.36	5,2		<9.00	0.06	64.95
6	21/01/2021		AR/01/2021/0		36.67	22.29	3.5		<9.00	0.05	53.29
7	25/01/2021		AR/01/2021/0		37.86	19.73	<3.0		12.20	0.07	58.96
8	7, 02/1021/004				57.48		<3.0		<9.00	0.07	53.30
J_		QS Lim		7,70	100	13.97	<3.0		<9.00	0.06	77.16
	Units				μg/ m³	60	80		80	4	-
	Method				μg/ 1113 IS 5182(	μg/m³ Lab SOP NO.:	μg/m³		μg/m³	mg/m³	μg/m³
	IY	Tethod			Part 23)	SEE/LD/SOP-AA-04	IS 51 (Part	- 1	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)

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		AMBIEN	IT All	R QUALI	TY MONITOR	ING	RE	PORT		**************************************		
Rep	ort Date	30/01/2021	~~~~									
Nan	ne of Client	M/s. Megawid C/o GMR Goa								**************************************		
Add	lress of Client	Mopa, Goa		λλ.				ANNOUNCE TO ANNOUNCE AND THE ANNUAL TO A STATE OF THE ANNUAL AND ANNUAL AND ANNUAL AND ANNUAL AND ANNUAL AND A				
San	ple Collected	By SEEPL Repres	entativ	7e								
Mor	ith of Samplin	g January 2021										
	·	- 1		AMBIENT	AIR LOCATION					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Loca	ation of ambie	nt air station	T		nem (Goa State)					***************************************		
		Temperature (°C)	30,4					N 15042'4	11.9"			
	rage Wind Spe	····	1.0	Average Wind direction (Deg) 267 Longitude E 73°52'1								
	ruments Used		<del> </del>		RDS(APM-460) &G			·				
Sr.	Date of		Ì				MET					
No	Sampling	Report No.	Ī	PM ₁₀	PM _{2.5}	S	 D ₂	NOx	CO	SPM		
1	04/01/2021	SEE/AR/01/2021/	0173	68.33	14.21	5.53		10.00	0.05	93.09		
2	07/01/2021	SEE/AR/01/2021/	0272	20.95	6,32	<3	.00	<9.00	0.06	40.95		
3	11/01/2021	SEE/AR/01/2021/	0408	32,28	20.28	6.	73	<9.00	0.07	55.37		
4	14/01/2021	SEE/AR/01/2021/	0497	60.21	12.97	<3	.00	<9,00	0.03	76.20		
5	18/01/2021	SEE/AR/01/2021/	0643	82.30	18.11	<3	.00	15.04	0.06	100,41		
6	21/01/2021	SEE/AR/01/2021/	0730	60.64	14.64	<3	.00	<9.00	0.05	89.41		
7	25/01/2021	SEE/AR/01/2021/	0843	44.32	17.71	<3	.00	<9.00	0.07	60.23		
8	28/01/2021	SEE/AR/01/2021/	0905	71.12	21,29	<3	.00	9.14	0.03	87.10		
	NAAQS Limits*				60	8	0	80	4.	_		
	Units				μg/m³	μg/m³		μg/m³	mg/m³	μg/m³		
		<b>Method</b>		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)

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.

Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.i.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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		AMBIEN	JT A	IR QUAL	ITY MONITOR	RINO	REP	ORT		
Rep	oort Date	30/01/2021	*************					· · · · · · · · · · · · · · · · · · ·		
Nar	ne of Client	M/s. Megaw	ide Co		DMCC rport Limited		***************************************			Tarada Ada da
Ado	lress of Client	Mopa, Goa		·				-11		
San	nple Collected	By SEEPL Repre	senta	tive			*****			
Moi	nth of Samplin	g January 202	1.	. , , , , , , , , , , , , , , , , , , ,						
				AMBIEN ⁻	FAIR LOCATION	V				~~~
Loc	ation of ambie	nt air station	Rajv	il Wada Toi	rxem (Goa State)					
Ave	rage Ambient	Temperature (°C)	30,8							40.0"
Ave	rage Wind Spe	ed (km/hr)	1.5	Average Wind direction (Deg) 227 Longitude E 73°50'5						
Inst	ruments Used		FPS(	APM-550),	RDS(APM-460) &0	GPS (A	APM - 4	11)	t	
Sr.						PAR	AMETE	RS		
No	Sampling	report No.		PM ₁₀	PM _{2.6}	,	SO ₂	NOx	CO	SPM
1	04/01/2021	SEE/AR/01/2021/	0177	72.85	35.69		1.40	<9.00	0.06	117.06
2	07/01/2021	SEE/AR/01/2021/	0276	28,27	10.06	<	3.00	<9.00	0.08	51.26
3	11/01/2021	SEE/AR/01/2021/	0412	64.04	28.90	<	3.00	<9.00	0.09	112.3
4	14/01/2021	SEE/AR/01/2021/	0501	89.50	36.29	7	7.40	<9.00	0.07	129.64
5	18/01/2021	SEE/AR/01/2021/	0647	81.16	33.24	<	3.00	12.79	0.08	163,49
6	21/01/2021	SEE/AR/01/2021/	0734	66.93	22.70	7	1.14	<9.00	0.06	99.25
7	25/01/2021	SEE/AR/01/2021/	0848	87.00	30,14	<	3.00	<9.00	0.05	138.53
8	28/01/2021	SEE/AR/01/2021/	0909	88.29	33.63	<:	3.00	<9.00	0.07	132.28
	NAA	QS Limits*		100	60		80	80	4	~
	***************************************	Units		μg/ n1 ³	μg/m³	με	/m³	μg/m³	mg/m³	μg/m³
	N	/lethod		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 ort 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.

Analysed by Dipali Sawant

Vibopdekax Authorized Signatory Varsha Pole

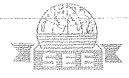
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BRANCH OFF.

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

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	NOISE LEVEL MONITORING RE	EPORT	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Report No.	SEE/AR/01/2021/0279-0280, 0518, 0517, 0504, 0605, 0505, 0898, 0650,0897,0823-0824	Report Date	30/01/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited		
Address of Client	Mopa, Goa		
Sample Collected By	SEEPL Representative		a being the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Zone Sampling Location		Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						Lmin	Lmax	Leq	Lmin	Lmax	Leg	
1.	07/01/2021	SEE/AR/01/2021/0279	G-N1		Мора	33.0	76.0	58.9	30.2	73.3	49.9	
2.	07/01/2021	SEE/AR/01/2021/0280	G-N2	1	Shemecheadvan	32.1	76.3	59.2	31.6	75.3		
3,	15/01/2021	SEE/AR/01/2021/0518	G-N3	С	Nagzar	30.1	76.3	49.8	30,2	57.4	52.0	
4.	15/01/2021	SEE/AR/01/2021/0517	G-N4	R	Purva Casarvarnem	30.0	74.6	53.8	30,0	68.7	39.3	
5.	14/01/2021	SEE/AR/01/2021/0504	G-N5	R	Chandel	30,8	81.8	52.3	30.0		42,1	
6,	16/01/2021	SEE/AR/01/2021/0605	G-N6	R	Khajne Amere Porscodem	30.0	64.4	43.2	31.7	67.6	41.5	
7.	14/01/2021	SEE/AR/01/2021/0505	G-N7	R	Warkhand	30.3	80.5	51.3		48.1	34.9	
8.	27/01/2021	SEE/AR/01/2021/0898	G-N8	С	Rajvil Wada Torxem	30.0	73,2	55.8	32.7	65.6	42.3	
9,	18/01/2021	SEE/AR/01/2021/0650	G-N9	С	Village Panchayat Tamboxem -Mopa- Ugvem	31.3	64.4	55,1	30.1 30.9	55,8 62,7	40.0	
10.	27/01/2021	SEE/AR/01/2021/0897	M-N1	R	Satarda	30.6	59.9	45.0	31.7			
11.	23/01/2021	SEE/AR/01/2021/0823	M-N2	R	Dingna	30.1	79.5	52.6	32.3	67.7	41.6	
12.	23/01/2021	SEE/AR/01/2021/0824	M-N3	R	Netarde	30.1	79.1	51.3	31.1	63,8 43,9	40.7 36.9	

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

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

			The second of the design of the design of	OWS.
	Area Code	Category of Area	Limits in dB(/	A) Leq
	(6)		Day Time	Night Time
	(A)	Industrial Area (1)	75	70
١	(B)	Commercial Area ( C )	65	EE .
	(C)	Residential Area (R)	55	/IE
į	(D)	Silence Zone (S)	50	40
mi	times in vacables	- 1: 1 1 0 00		70

Day time is reckoned in between 6.00am to 9.00pm and night time is reckoned in between 9.00pm to 6.00am.

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

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

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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Monitored by Sanjivan Gawas

SchopdeKar Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane _400 604. Maharashtra State, India.

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

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B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. Ø .: (0832) 2411322 / 2411323 

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	ANALYSIS REPO	RT FOR	R WATER SAMPLE					
Report No.	SEE/01/2021/386	SEE/01/2021/386 Report Date 03/02/202				2021		
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa		, , , , , , , , , , , , , , , , , , , ,			* A Marriery of Art. Stag SET 1974 had den den some Marriery Marriery Services		
Order / Reference	As per dated 25/01/2021	As per detect 05/01/2001 Envi		Temp ⁰ C		Humidity %		
Order / Releterice	As per dated 25/01/2021	L-  1 1 V 1	ronmental Condition of Lab	28.5		68		
Sampling point	PTB Tank							
Sample details	Drinking Water		Date of collection		25/01/	2021		
Sample Collected by	SEEPL Representative		Sample Received On		25/01/	2021		
Analysis Started On	25/01/2021	25/01/2021 Analysis Completed On				/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	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44,5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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Uchita Dongare Analyzed by

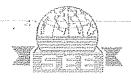
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	ANALYSIS REPO	RT FOR	WATER SAMPLE				
Report No.	SEE/01/2021/387	SEE/01/2021/387 Report Date 03/02/2021					
Name of Client	M/s. Megawide Construction C/o GMR Goa International						
Address of Client	Mopa, Goa						
Order / Deference	An war dated 05/04/0004	As per dated 25/01/2021 Environmental Condition of Lab		Temp ⁰ C		Humidity %	
Order / Reference	As per dated 25/01/2021			28.5		68	
Sampling point	Drinking Water Tank Runw	ay chair	age 2700				
Sample details	Drinking Water		Date of collection		25/01/	/2021	
Sample Collected by	SEEPL Representative		Sample Received On	25/01/2021		/2021	
Analysis Started On	25/01/2021	25/01/2021 Analysis Co				/2021	
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can Sample Quantity 1000 ml + 4000m					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPOI	RT FOR WATER SAMPLE						
Report No.	SEE/01/2021/382	SEE/01/2021/382 Report Date 03/02/2021						
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa				1 1 1			
Order / Reference	er / Reference As per dated 25/01/2021 Environmental Condition of Lab		Tem	p º C	Humidity %			
Order / Melereside	7.0 pc1 dated 20/01/2021	Entra official software of the	2	8.5	68			
Sampling point	R.R Canteen							
Sample details	Drinking Water	Date of collection		25/01/	2021			
Sample Collected by	SEEPL Representative	SEEPL Representative Sample Received On						
Analysis Started On	25/01/2021	25/01/2021 Analysis Completed O						
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	Absent	APHA( 23™Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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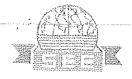
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: 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ② : (0832) 2437048 / 2437164

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • сіл нь. и45209мн1998РТС-116379



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. ① .: (0832) 2411322 / 2411323 • E-mail : starlabgoa@rediffmail.com

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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/01/2021/383	SEE/01/2021/383 Report Date 03/02/2					
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 25/01/2021	dated 25/01/2021 Environmental Condition of Lab		Humidity %			
			28.5	68			
Sampling point	VNC Colony						
Sample details	Drinking Water	Date of collection	25/0	1/2021			
Sample Collected by	SEEPL Representative	Sample Received On	25/0	25/01/2021			
Analysis Started On	25/01/2021	Analysis Completed On	03/0:	03/02/2021			
Sample Container	Glass bottle						

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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Uchita Dongare Analyzed by

Varsha Pole

**Authorized Signatory** 

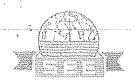
HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India. Page 1 of 1

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	ANALYSIS REPO	RT FOR	WATER SAMPLE					
Report No.	SEE/01/2021/384	SEE/01/2021/384 Report Date 03/02/2021						
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa							
Order / Reference	As per dated 25/01/2021	As per dated, 25/01/2021 Environmental Condition of Lab		Tem	р ⁰ С	Humidity %		
Order / Reference	As per dated 25/01/2021	H11411	Offine Mai Condition of Lab	28.5		68		
Sampling point	LSC Labour Colony							
Sample details	Drinking Water		Date of collection		25/01/	2021		
Sample Collected by	SEEPL Representative		Sample Received On	-	25/01/	2021		
Analysis Started On	25/01/2021	25/01/2021 Analysis Completed On 0						
Sample Container	Glass bottle							

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23™Edition) 9221-G

Note: Test results related only to the sample tested.

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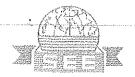
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	ANALYSIS REPO	RT FOR W	ATER SAMPLE		****			
Report No.	SEE/01/2021/385		Report Date		03/02/2021			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa	Mopa, Goa						
Order / Reference	As per dated 25/01/2021 Env		ronmental Condition of Lab		р⁰С	Humidity %		
	1.0 por dated 2010 //2021				3.5	68		
Sampling point	UG Water tank( Water Inta	ike From T	illari Canal –TIP)					
Sample details	Surface Water		Date of collection		25/01/	2021		
Sample Collected by	SEEPL Representative	,	Sample Received On		25/01/2021			
Analysis Started On	25/01/2021		Analysis Completed On		03/02/	2021		
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 mi + 4000ml			

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	7.16	-	6.5 - 8.5	APHA(23rdEdition) 4500 H+-B
2.	Turbidity	<1.00	NTU	1.00	APHA(23 rd Edition) 2130 B
3.	Taste	Agreeable	4	Agreeable	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rd Edition ) 2120 B
5.	Odour	Agreeable	4	Agreeable	APHA( 23 rd Edition ) 2150 B
6.	Total Alkalinity	52.00	mg/lit	200,00	APHA( 23 rd Edition ) 2320 B
7.	Total Dissolved Solids	181.00	mg/lit	500.00	APHA( 23d Edition ) 2540 C
8.	Chlorides as CI	15.51	.mg/lit	250,00	APHA( 23rdEdition ) 4500 CI- B
9.	Sulphate as SO _{4*}	<5.00	mg/lit	200.00	APHA( 23 rd Edition ) 4500 SO₄E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	88.00	mg/lit	200.00	APHA( 23rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23™Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39): 1991

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Report No.	SEE/01/2021/385	Report Date	03/02/2021		
Order / Reference	As per dated 25/01/2021	Sample Received On	25/01/2021		
Analysis Started On	25/01/2021	Analysis Completed On	03/02/2021		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Cher	nical Parameters		·	T	
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23 rd Edition ) 4500 CI- C
15.	Nitrate as NO₃	1.24	mg/lit	45.00	APHA( 23rdEdition ) 4500 NO ₃ B
16.	Fluoride as F-	<0.10	mg/lit	1.00	APHA( 23 rd Edition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 4500 CN D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA( 23 rd Edition ) 5540 – C
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23rdEdition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA(23 rd Edition) 3120 B
23.	Calcium as Ca	20.84	mg/lit	75.00	APHA( 23™Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA(23 rd Edition) 3120 B
25.	Iron as Fe	<0.01	mg/lit	1.00	APHA( 23 rd Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	8.77	mg/lit	30,00	APHA( 23 rd Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA( 23rdEdition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	(ઇ કે ે 0.05	APHA( 23rdEdition ) 3120 B

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Report No.	SEE/01/2021/385	Report Date	03/02/2021			
Order / Reference	As per dated 25/01/2021	Sample Received On	25/01/2021			
Analysis Started On	25/01/2021	Analysis Completed On	03/02/2021			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Microbiological Parameters

Uchita Dongare

Analyzed by

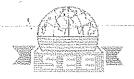
Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	RT FO	R WATER SAMPLE			
Report No.	SEE/01/2021/388	SEE/01/2021/388			03/02/2021	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
0 1 10 4	10 may dated 0E/04/0004	Environmental Condition of Lab		Temp ⁰ C		Humidity %
Order / Reference	As per dated 25/01/2021	L[[V]	Elianosillicitas condition of rap		8.5	68
Sampling point	Borewell 2					
Sample details	Ground Water		Date of collection	25/01/2021		2021
Sample Collected by	SEEPL Representative		Sample Received On	25/01/2021		2021
Analysis Started On	25/01/2021	25/01/2021			03/02/2021	
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can		PERSONAL THE PERSONAL AND THE PAST	1000 ml + 4000ml	

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	рН	7.30	-	6.5 - 8.5	APHA(23rdEdition) 4500 H+-B
2	Turbidity	<1.00	NTU	1.00	APHA( 23rdEdition ) 2130 B
3.	Taste	Agreeable		Agr <b>e</b> eable	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	48.00	mg/lit	200.00	APHA( 23rdEdition ) 2320 B
7.	Total Dissolved Solids	168.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as CI	14.01	nıg/lit	250.00	APHA( 23rdEdition ) 4500 Cl- B
9.	Sulphate as SO ₄ -	<5.00	mg/lit	200.00	APHA( 23™Edition ) 4500 SO₄E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	96.00	mg/lit	200.00	APHA(23rdEdition) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA(23rdEdition) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0,50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/01/2021/388	Report Date	03/02/2021		
Order / Reference	As per dated 25/01/2021	Sample Received On	25/01/2021		
Analysis Started On	25/01/2021	Analysis Completed On	03/02/2021		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method	
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CI- C	
15.	Nitrate as NO₃	<1.00	mg/lit	45.00	APHA( 23rdEdition ) 4500 NO ₃ B	
16.	Fluoride as F-	<0.10	mg/lit	1.00	APHA(23rdEdition) 4500 F D	
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA(23rdEdition) 5530-B,C	
18.	Cyanide	<0.01	mg/lit	0.05	APHA(23rdEdition) 4500 CN –D	
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23rdEdition) 5540 - C	
Metal Analysis						
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23rdEdition ) 3120 B	
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA(23rdEdition) 3120 B	
22.	Boron as B	<0.01	mg/lit	0.50	APHA(23rdEdition) 3120 B	
23.	Calcium as Ca	19.23	mg/lit	75.00	APHA(23rdEdition) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA(23rdEdition) 3120 B	
25.	Iron as Fe	<0.01	mg/lit	1.00	APHA(23rdEdition) 3120 B	
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B	
27.	Magnesium as Mg	11.70	mg/lit	30.00	APHA(23rdEdition) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B	
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA(23 rd Edition) 3120 B	
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA(23rdEdition) 3120 B	
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rd Edition ) 3120 B	
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23rdEdition) 3120 B	
33.	Copper as Cu	<0.01	mg/lit	0.05	APHA(23rdEdition) 3120 B	

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Report No.	SEE/01/2021/388	Report Date	03/02/2021		
Order / Reference	As per dated 25/01/2021	Sample Received On	25/01/2021		
Analysis Started On	25/01/2021	Analysis Completed On	03/02/2021		
Name of Client  M/s. Megawide Construction DMCC  C/o GMR Goa International Airport Limited					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-G

Note: Test results related only to the sample tested.

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	ANALYSIS REPORT FOR WATER SAMPLE								
Report No.		30/01/2021							
Name of Client  M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited									
Address of Client	Mopa, Goa	•							
0-1-10 (	A	Faules	Environmental Condition of Lab		emp ⁰ C	Humidity %			
Order / Reference	As per dated 25/01/2021 Enviror		Innerral Condition of Lab		28.5	68			
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10					
Sampling point	STP								
Sample details	Inlet Water		Date of collection		25/01/20	21			
Sample Collected by	SEEPL Representative	SEEPL Representative			25/01/2021				
Analysis Started On	25/01/2021 Analysis Completed On			30/01/2021		21			
Sample Container	Glass Bottle + PVC Can					+ 1000ml			

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pН	6.49		APHA( 23™Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	972.00	mg/lit	APHA( 23 rd Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	262,50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	157.00	mg/lit	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	25.40	mg/lit	APHA( 23 rd Edition ) 5520-O &G
6.	Ammonia	21.28	mg/lit	APHA( 23 rd Edition ) 4500 NH₃B C
7.	Phosphate as PO ₄	3,70	mg/lit	APHA( 23™Edition ) 450 P C

Note: Test results related only to the sample tested.

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	ANALYSIS REPO	ORT FOR	WATER SAMPLE		***************************************		
Report No.	SEE/01/2021/379		Report Date	30/01/2021			
Name of Client	lame of Client  M/s. Megawide Construction DMCC  C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	March adelhaceada como como como como como como de la cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de cidade de ci			
Order / Reference	As per dated 25/01/2021	Enviro	nmental Condition of Lab	Temp ⁰ C	Humidity %		
Order / Neterence	As per dated 20/01/2021 Enviro		iiiientai Condition oi Lab	28,5	68		
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10			
Sampling point	STP				***************************************		
Sample details	Outlet water		Date of collection	25/01/20	25/01/2021		
Sample Collected by	by SEEPL Representative Sampl		Sample Received On	25/01/20	25/01/2021		
Analysis Started On	n 25/01/2021 Analysis Completed On			30/01/20	30/01/2021		
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml	+ 1000ml			

**Chemical Parameters** 

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	рН	6.94	-	5.5 – 9.0	APHA( 23rdEdition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	144.00	mg/lit	250.00	APHA( 23rdEdition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	23.53	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	63.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	5.40	mg/lit	10.00	APHA( 23 rd Edition ) 5520-O &G
6.	Ammonia	5.64	mg/lit	50.00	APHA( 23rdEdition ) 4500 NH₃B C
7.	Phosphate as PO ₄	<1.00	mg/lit	5.00	APHA( 23 rd Edition ) 450 P C

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

Note: Test results related only to the sample tested.

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

Shreya Harmalkar Analyzed by

Värsha Pole **Authorized Signatory** 

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



B-306/307, Plot No. 61, Patel Estato, Reis Magos, Vorem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101 Goa State, India. Ø .: (0832) 2411322 / 2411323 ● E-mail : starfabgoa@rediffmail.com

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Lab. accredited by NASIL, Valid up to 29,06.2021 * Certified by ISO 9001:2015 & ISO 45001 : 2018

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Ado	Iress of Client	Mopa, Goa						Man december of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c			
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Moi	nth of Samplin	ig December 20	20					***************************************			
	66 m. de de de de de de de de de de de de de			AMBIEN	FAIR LOCATION	[					
Loc	ation of ambie	nt air station	Sata	rda(Mahara	ashtra State)	——————————————————————————————————————					
Ave	rage Ambient	Temperature (°C)	29.6	Average	Humidity (%)	71	Latitude	N15º45'0:	1.3"		
Ave	Average Wind Speed (km/hr) 1.:			Average	Wind direction(Deg	) 196	Longitude	E 73º48'0	0.2"		
lnist	ruments Used		FPS(	G(APM-550), RDS(APM-460)&GPS(APM – 411)							
Sr.	Date of			PARAMETERS							
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NO _X	co	SPM		
1	03/12/2020	SEE/AR/12/2020/	)112	56.57	20.41	<3,00	<9.00	0.05	168.96		
2	07/12/2020	SEE/AR/12/2020/	)262	39.83	25.29	4.51	10.35	0.07	174.32		
3	10/12/2020	SEE/AR/12/2020/	0408	37.12	16.38	<3.00	<9.00	0.03	135.50		
4	14/12/2020	SEE/AR/12/2020/0	)480	47.98	26.45	3.24	21.59	0,07	120.68		
5	17/12/2020	SEE/AR/12/2020/0	0612	28.79	23.98	4.21	22.49	0.05	72.77		
6	21/12/2020	SEE/AR/12/2020/	)747	47.20	20.68	<3.00	<9.00	0.07	80.20		
7	24/12/2020	SEE/AR/12/2020/0	1892	37.34	27.94	<3.00	10.24	0.09	87.61		
8	28/12/2020	SEE/AR/12/2020/0	973	52.23	18.49	<3.00	20.62	0.03	70.72		
9	31/12/2020	SEE/AR/12/2020/	072	38.70	17.48	<3.00	<9.00	0.06	114.69		
	ÑΑΛ	QS Limits*		100	60	80	80	4	-		
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³		
	ľ	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.

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

⑦ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ◆ E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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## Calibration details of Equipment used for Sampling & Analysis

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1456-DTD-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
,	2009)	21/FLOW/547		

## 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	-
i	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/587	29/07/2020	29/07/2021	

### CO METER

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



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Lab. accordited by **NABL**, Valid up to 29.06.2021 ★ Certified by ISO 9001:2015 & ISO 45001 :2016

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Nar	Name of Client  M/s. Megawide Cor C/o GMR Goa inter							Wash No. 6			
Αdε	lress of Client		Mopa, Goa								
San	ple Collected I	Зу	SEEPL Repres	entati	ve						
Mor	nth of Samplin	g	December 202	20						.,,,,,	PPOPER I SEE TO FEE I TO FEE I AND AND AND AND AND AND AND AND AND AND
					AMBIENT	TAIR LOCATIO	N				
Loc	ation of ambie	nt ai	r station	Nagz	ar(Goa Stat	te)				oor common common to the second contract of the second of a	
Ave	rage Ambient	Tem	perature (°C)	30.2	Average	Humidity (%)		78	Latitude	N 15º42'3	7.3"
Average Wind Speed (km/hr) 1.6			1.6	Average	Wind direction(Do	eg)	265	Longitude	E 73051'1	4.22"	
Instruments Used FPS				FPS(	S(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of	***************************************	P				PAR	AMETI	ERS		
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	5	SO ₂	NOx	CO.	SPM
1	03/12/2020	SEI	E/AR/12/2020/0	0113	77.56	32,44	<;	3.00	15.97	0,07	164.27
2	07/12/2020	SEF	E/AR/12/2020/0	0263	48.60	34.64	4	.38	16.06	0.06	154.96
3	10/12/2020	SEE	E/AR/12/2020/0	0409	39.04	19.22	10	0.44	<9.00	0.07	122.56
4	14/12/2020	SEL	E/AR/12/2020/0	)481	48.31	21.81	5	.18	27.12	0.03	131.49
5	17/12/2020	ļ	E/AR/12/2020/0		29,28	12,43	<.	3.00	21.01	0.05	45.07
6	21/12/2020	SEF	E/AR/12/2020/0	0748	48.04	25.82	<.	3.00	9.62	0.07	131.89
7	24/12/2020	SEL	E/AR/12/2020/0	0893	57.83	34.02	<:	3.00	<9.00	0.05	129,02
8	28/12/2020	SEL	E/AR/12/2020/0	)974	78.63	40.96	Κ.	3.00	13.56	0.08	119.85
9	31/12/2020	SEE	E/AR/12/2020/:	1073	51.08	17.05	<.	3.00	<9.00	0.05	101.05
	NAA	QS Li	imits*		100	60		80	80	4	-
		Unit	S		$\mu g/m^3$	μg/m³		g/m³	μg/m³	mg/m³	μg/m³
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	i	5182 art 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

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

Analysed by Dipali Sawant SUPPLIES TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH

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HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

## Calibration details of Equipment used for Sampling & Analysis

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration duesdarks
01	RDS-APM 460 BL(SR NO. 1723-DTI-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2012)	20/FLOW/5138		

## UV Spectrophotometer

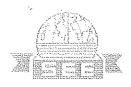
	ST NO.	Equipment Name	Calibration	
- 1	U.L	UV	la House Calibration	

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

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### CO METER

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



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

SAVE WATER SAVE UFE

Lab. accredited by NAIX. Valid up to 29.06.2021 * Certified by ISO 9001:2015 & ISO 45001 : 2018

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	.,,,,	Temperature (ºC)	29.2	Average	Humidity (%)	69	Latitude	N 15º42'	41.9"	
Ave	erage Wind Spe	eed (km/hr)	0.8	Average	Wind direction(De	g) 178	Longitude	E 73º52'	16,6"	
Inst	ruments Used		FPS(APM-550), RDS(APM-460)&GPS(APM - 411)							
Sr Date of			•	PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO₂	NO _X	со	SPM	
1	03/12/2020	SEE/AR/12/2020/	0114	59,32	20.14	3.29	<9.00	0.03	158.12	
2	07/12/2020	SEE/AR/12/2020/	0264	33.33	16.34	<3.00	10.24	0,06	147.32	
3	10/12/2020	SEE/AR/12/2020/	0410	33.98	19.61	11.50	13.11	0.03	134.81	
4:	14/12/2020	SEE/AR/12/2020/	0482	34.68	14.43	13.09	25.56	0.05	114,43	
5	17/12/2020	SEE/AR/12/2020/	0614	30.94	48.50	<3.00	15.01	0.07	96.88	
6	21/12/2020	SEE/AR/12/2020/	)749	51.73	23.65	<3.00	15.00	0.03	90.22	
7	24/12/2020	SEE/AR/12/2020/0	1894	46.08	24.36	<3.00	16.22	0.06	89.80	
8	28/12/2020	SEE/AR/12/2020/0	975	85,30	20.96	<3.00	18.78	0.08	115.23	
9	31/12/2020	SEE/AR/12/2020/	1074	38.44	16.42	7.15	10.81	0.05	68.09	
·····	NAAG	QS Limits*		100	60	80	80	4	_	
		Units		μg/ mi³	μg/m³	μġ/m³	μg/m³	mg/m³	µg/m³	
	Method			IS.5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar6@gmail.com

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

BRANCH OFF.

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

E-mail: sadekarenviro@rediffmail.com « Website: www.sadekarenviro.com « сіл но. и45209мн1998Ртс-116379

## Calibration details of Equipment used for Sampling & Analysis

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 2892-DTJ-2020)	ECL/SEEPL/2020-	14/10/2020	14/10/2021
Ar. 11. March & March & 1 (1) 4 4 1 Ar		21/FLOW/1845		

## UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

### CO METER

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



8-306/307, Plot No. 61, Patel Estate, Rois Magos, Verem, Alto, Old Bellim Road, Bardez, Porvorim, Panaji-Soa-403-101. Goa State, India. (Ĉ) : /0832) 2411322 / 7411323 € E-mail : starlabgoa@rediffmail.com

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Loc	ation of ambie	nt air	station	Khaj	ne Amere	Porscodem (Goa St	tate)				
Ave	rage Ambient	Temp	erature (ºC)	29.6	Averag	e Humidity (%)		75	Latitude	N 15º43'3	8.0"
Ave	rage Wind Spe	ed (k	in/hr)	1.3	Averag	e Wind direction(E	eg)	236	Longitude	E 73º49'2	1.4"
Inst	ruments Used			FPS(	PS(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Sr. Date of 5			PARAMETERS							
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	S	O ₂	NOX	co	SPM
1	03/12/2020	SEE,	/AR/12/2020/	0115	60.22	26.32	<3	.00	11.39	0.05	179.26
2	07/12/2020	SEE,	/AR/12/2020/	0265	36.52	18.21	7,	98	17.96	0.06	155.27
3	10/12/2020	SEE,	/AR/12/2020/0	0411	31,19	18,21	<3	.00	11.39	0.05	120.72
4	14/12/2020	SEE,	/AR/12/2020/0	0483	28.99	9,84	<3	.00	13.99	0.07	109.84
5	17/12/2020	SEE,	/AR/12/2020/0	0615.	19.02	6.61	<3	.00	20.02	0.03	25.63
6	21/12/2020	SEE	/AR/12/2020/0	0750	25.36	15.34	<3	.00	<9.00	0.05	70.92
7	24/12/2020	SEE,	/AR/12/2020/	0895	47.59	19.46	<3	.00	11.66	0.08	119.72
8	28/12/2020	SEE,	/AR/12/2020/0	0976	60.32	41.04	<3	.00	<9.00	0.07	101.36
9	31/12/2020	SEE,	/AR/12/2020/	1075	37.97	21.67	3.	45	13.90	0.08	152.70
	NAA	QS Lir	mits*		100	60	8	10	80	4	
		Units			μg/ m³	μg/m³		/m³	μg/m³	mg/m³	μg/m³
	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
- : 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.

Analysed by Dipali Sawant



VchopdeKar Authorized Signatory Varsha Pole

HEAD OFF, & LAB:. Ploi No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagte Industrial Area, Thane - 400 604. Maharashtra State, India.

🐞 : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psädekar5@gmail.com

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

BRANCH OFF.

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

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • сін нь. ич5209мн1998РТС-116379

## Calibration details of Equipment used for Sampling & Analysis

## Respirable Dust Sampler's with Gaseous Sampling

	21 140"	Equipment Name	Certificate No.	Calibrated on	Calibration due date	ı
1	01.	RDS- APM 460 BL(SR NO.2028-DTD-	ECL/SEEPL/2020		29/07/2021	
l		2016)	21/FLOW/584		, , , , , , , , , , , , , , , , , , , ,	

## UV Spectrophotometer

- 1	21 14()'		Calibration	
- [	01	W		į
1	·	Manager of the supplemental and another than the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the supplemental and the su	In House Calibration	

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

	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	l
1	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/588		29/07/2021	1

### CO METER

Sr No.	nistrument Type	Calibrated on	Calibration due date	1
1 04 1	CO Analyzer (SK No. 17-0135 Serinus 30)	21/07/2020	20/07/2021	



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

SAVE WHIER STAVE UFF

Lab. accredited by NABL. Valid up to 29.06.2021 * Certified by ISO 9001:2015 & ISO 46001:2018

		AMBIEN	IT AI	R QUALI	TY MONITOR	ING	RE	PORT		
Rep	ort Date	04/01/2021								
Nan	ne of Client	M/s. Megawio C/o GMR Goa	le Con interi	struction DI national Airj	MCC port Limited					
Add	ress of Client	Mopa, Goa		hanner Maria A. A. a. a. a. a. a. a. a. a. a. a. a. a. a.	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	. ,				
San	ple Collected	3y SEEPL Repres	sentati	ve	en en energen an en		vav		**************************************	
Mot	nth of Samplin	g December 20	20	75.74 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	A PARAMETER AND AND AND AND AND AND AND AND AND AND				energy (1999) is a substitute of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second	
				AMBIENT	AIR LOCATION	4		A Andrea Maria		
Loc	ation of ambie	nt air station	Ding	na(Maharas	shtra State)					
Ave	rage Ambient	Temperature (°C)	29.9	Average l	Tumidity (%)	7	4	Latitude	N 15º47'1	1.3"
Ave	rage Wind Spe	ed (km/hr)	1.2	Average \	Wind direction(Deg	3) 1	98	Longitude	E 73º53'1	1.6"
Inst	ruments Used		FPS(	APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	S	02	NOx	co	SPM
1	03/12/2020	SEE/AR/12/2020/	0116	60.11	25.13	3.	71	<9.00	0.05	175.22
2,	07/12/2020	SEE/AR/12/2020/	0266	44.13	32.79	11.	10	10.14	0.07	163.29
.3	10/12/2020	SEE/AR/12/2020/	0412	45.38	22.79	1.3.	83	<9.00	0.05	145.52
4	14/12/2020	SEE/AR/12/2020/	0484	25.20	17.13	<3	00	<9.00	0.05	125.79
-5	17/12/2020	SEE/AR/12/2020/	0616	28.74	17.13	<3	.00	14.14	0.06	45.87
6	21/12/2020	SEE/AR/12/2020/	0751	64.73	38.34	<3	.00	9.05	0.05	122.47
7	24/12/2020	SEE/AR/12/2020/	0896	57.99	14.39	<3	.00	21.97	80.0	81,58
8	28/12/2020	SEE/AR/12/2020/	0977	75.60	48.30	<3	.00	<9,00	0.05	148.61
9	31/12/2020	SEE/AR/12/2020/	1076	48,48	21.74	7.	64	12.67	0.07	70.22
NAAQS Limits*			100	60	8	0	80	4	-	
	**************************************	Units	ngala tah daringgan kempanan	μg/ m³.	μg/in³		/m³	μg/m³	mg/m³	μg/m³
		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)

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. chopdekay

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

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra Stale, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF.

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

## 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-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2011)	20/FLOW/5137		

## UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	1 07	In House Calibration

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

	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
1	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/536	23/07/2020	23/07/2021

### CO METER

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



B-306/307, Plot No. 61, Palel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorint, Panniji-Goa-403 101 Goa Slate, India. 0 .; (0832) 2411322 / 2411323 ullet E-mail : starlabyoa@rodiffmail.com

Lab. accredited by MABL, Valid up to 29.06.2021 & Certified by ISO 9991:2015 & ISO 45001 : 2018

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				AMBIEN	TAIR LOCATION	Ŋ.	<del></del>		
Loc	ation of ambic	nt air station	Neta	rde(Mahar	ashtra State)		**************************************	TELET BETWEEN THE PROPERTY OF A SECRET AND A SECRET ASSESSMENT	
Ανε	rage Ambient	Temperature (ºC)	30.1	Average Humidity (%) 70 Latitude N 15º45':			10.7"		
Àνε	rage Wind Spe	eed (km/hr)	1.4	Average Wind direction(Deg) 214 Longitude E 73°53'47.0"					47.0"
Inst	ruments Used		FPS(	(APM-550), RDS(APM-460)&GPS(APM - 411)					
Sr.	Date of	Donori No				PARAMET	ERS		
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	co	SPM
1	03/12/2020	SEE/AR/12/2020/	0117	49.96	21.21	<3.00	<9.00	0.06	142.63
2	07/12/2020	SEE/AR/12/2020/	0267	40.40	21.16	8.18	13,16	0.05	164.54
3	10/12/2020	SEE/AR/12/2020/	0413	34.67	18.28	7.76	<9.00	0.07	120.27
. 4	14/12/2020	SEE/AR/12/2020/	0485	36.13	12.14	9.47	<9.00	0.05	115.69
5	17/12/2020	SEE/AR/12/2020/	0617	50.85	10.14	<3.00	15.38	0.07	66.23
6	21/12/2020	SEE/AR/12/2020/	0752	60.05	14.15	<3.00	<9.00	0.05	78.66

18.63

25.21

28.51

60

 $\mu g/m^3$ 

Lab SOP NO.:

SEE/LD/SOP-AA-04

< 3.00

<3.00

8.02

80

 $\mu g/m^3$ 

IS 5182

(Part 02)

13.85

<9.00

<9.00

80

 $\mu g/m^3$ 

IS 5182

(Part 06)

### *NATIONAL AMBIENT AIR STANDARDS (2009)

SEE/AR/12/2020/0897

SEE/AR/12/2020/0978

SEE/AR/12/2020/1077

Note: Test results related only to the sample tested.

**NAAQS Limits*** 

Units

Method

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

72.50

76.55

62.10

100

 $\mu g/m^3$ 

IS 5182(

Part 23)

: 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.

Analysed by Dipali Sawant

24/12/2020

28/12/2020

31/12/2020

9

Authorized Signatory Varsha Pole

0.07

0.07

0.09

4

 $mg/m^3$ 

IS 5182(

Part 10)

139.28

169,09

90.61

 $\mu g/m^3$ 

IS 5182(

Part IV)

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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.		Calibration due date
01	RDS- APM 460 BL(SR NO.1897-DT)-2014)	ECL/SEEPL/2020-	25/07/2020	25/07/2021
		21/FLOW/550		

### **UV** Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5119	20/02/2020	20/02/2021

### CO METER

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



B-306/307, Plot No. 61, Patel Estate, Rois Magos, Verem, Alto, Old Bellim Road, Bardez, Porvorim, Panaji-Goa-103 101. Goa State, India. © .: (0832) 2411322 / 2411323 . E-mail : stadabgoa@rediffmail.com

SAME WATER SHVC URE

Name of Client	M/s. Megawide Construction DMCC
	C/o GMR Goa international Airport Limited
Address of Client	Мора, Goa
Sample Collected By	SEEPL Representative
Month of Sampling	December 2020

#### AMBIENT AIR LOCATION

Location of ambient air station	Rajvil Wada Torxem (Goa State)						
Average Ambient Temperature (°C)	30.2	Average Humidity (%)	69	Latitude	N 15º46'40.0"		
Average Wind Speed (km/hr)		Average Wind direction(Deg)	218.	Longitude	E 73950'57.2"		
Instruments Used	FPS(A	PM-550), RDS(APM-460)&GPS(A	PM - 41	[1]			

Sr. Date of		A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	PARAMETERS						
No	Sampling	Report No.	PM ₁₀	PM _{2.5}	SO₂	NO _X	co	SPM	
1	03/12/2020	SEE/AR/12/2020/0118	85.30	33.72	7.23	16.24	0.08	165.32	
2	07/12/2020	SEE/AR/12/2020/0268	87 <b>.</b> 60	19.72	6.39	10.71	0.06	189.56	
3	10/12/2020	SEE/AR/12/2020/0414	45.13	21.51	8.73	<9.00	0.05	101.32	
4	14/12/2020	SEE/AR/12/2020/0486	83.85	31.12	<3,00	<9.00	0.06	157.44	
5	17/12/2020	SEE/AR/12/2020/0618	67.46	45.55	<3.00	15.56	0.08	118.95	
6	21/12/2020	SEE/AR/12/2020/0753	88.30	48.71	<3.00	<9.00	0.07	182.48	
7	24/12/2020	SEE/AR/12/2020/0898	86.20	40.16	4.57	17.39	0.06	196.99	
8	28/12/2020	SEE/AR/12/2020/0979	87.50	50.29	<3.00	<9.00	0.05	185.75	
9	31/12/2020	SEE/AR/12/2020/1078	83.99	20.31	<3.00	15.88	0.07	112.82	
	NAAQS Limits*			60	80	80	4	-	
Units			μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³	
~***	Method			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.

Analysed by Dipali Sawant

VchoRdeKar **Authorized Signatory** Varsha Pole

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

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

### Respirable Oust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	1	Calibrated on	Calibrationalissesians
01	RDS- APM 460 BL(SR NO.2024-040-	ECL/SEEPL/2020-	29/07/2020	29/07/2023
	2016)	21/FLOW/583		:

### UV Spectrophotometer

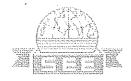
Sr No.	Equipment Name	Calibration
01.	UV	In House Calibration

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

Sr No.	Equipment Name	Certificate No.	_ ***	Calibration/dustdate
01		ECL/SEEPL/2019-20/FLOW/5141	21/02/2020	21/02/2021

#### CO METER

Sr No.	Instrument Type	Calibrated on	CalibrationsHumdate
01	CO Analyzer (SR No. 17-0135 Serinus 39)	21/07/2020	20/07/2021



SAVE WATER SAVE UFE

Lab. accredited by NBBL. Valid up to 29.06.2021 & Certified by ISO 9001:2015 & ISO 45001 : 2018

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Report Date 04/01/2021								and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
Nar	ne of Client		M/s. Megaw C/o GMR Go			OMCC rport Limited	gar gamma ana arangan da amili kalika				
Adc	lress of Client		Mopa, Goa		411100000000000000000000000000000000000	100 Mars 10 Ma	u taurua tirtin an no a sun ro roi	ala da 1880 antario de la california de la calegia de la c			
San	iple Collected	Ву	SEEPL Repr	esenta	ıtive		····				
Moi	nth of Samplin	g	December 2	020					******************************	annonementaria morti ett. Ett ett ett ett ett ett	
			1		AMBIENT	AIR LOCATION	Ŋ				
Loc	ation of ambie	nt air	station	Shen	necheadvan	(Goa State)					
Ave	rage Ambient	Temp	erature (°C)	30.5	Average	Humidity (%)	71	Latitud	le	N 15º44'0	6.1"
Ave	rage Wind Spe	ed (ki	n/hr)	1.0	Average	Wind direction(De	g)   189	) Longit	ude	E 73º51'3	1.5"
Inst	ruments Used			FPS(	(APM-550), RDS(APM-460)&GPS(APM – 411)						
Sr.	Date of		Daniel No.		PARAMETERS						
No	Sampling	***************************************	Report No.		PM ₁₀	PM _{2,5}	SO ₂	. NC	X	co	SPM
1	03/12/2020	SEE/	/AR/12/2020/0	)119	85.0 <b>0</b>	41.23	<3.00	) 13.0	01	0.06	358.63
2	07/12/2020	SEE/	AR/12/2020/0	)269	80.60	46.40	6.71	17.0	9	0.07	375.46
3	10/12/2020	SEE/	AR/12/2020/0	)415	52.67	38.03	19.97	? <9.0	00	0.05	112.24
4	14/12/2020	SEE/	AR/12/2020/0	)487	65,21	18.28	4.32	<9.0	00	0.06	148.05
5	17/12/2020	SEE/	AR/12/2020/0	)619	75.38	35.25	<3.00	21.	93	0.07	147.46
6	21/12/2020	SEE/	AR/12/2020/0	)754	79.96	43.33	10.38	3 22.	23	0.07	191.06
7	24/12/2020	SEE/	AR/12/2020/0	899	57.88	36.72	7.42	27.0	80	0.09	165.03
8	28/12/2020	SEE/	AR/12/2020/0	980	87.40	47.30	<3.00	10.	14	80.0	210.7
9	31/12/2020	SEE/	AR/12/2020/1	1079	88.42	54.60	<3.00	) <9.0	00	0.06	211.08
	NAA	QS Lin	nits*		100	60	80	80	).	4	-
		Units			μg/ m³	μg/m³	μg/m		*************	mg/m³	μg/m³
	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)

Note: Test results related only to the sample tested.

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

Analysed by Dipali Sawant Authorized Signatory Varsha Pole

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

## Calibration details of Equipment used for Sampling & Analysis

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.		Calibration due slate
01.	RDS- APM 460 BL(SR NO.1904-DTJ-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
	2014)	21/FLOW/548		

### **UV** Spectrophotometer

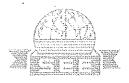
Sr No.		Calibration	Ì
01	UV	In House Calibration	-

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

5	r No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	1
0:	1	FPS - APM 550	ECL/SEEPL/2020-21/FLOW/537	24/07/2020	24/07/2021	

#### CO METER

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



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SAVE WATER SAVE UFE

AMBIENT AIR QUALITY MONITORING REPORT					
Report Date	04/01/2021				
Name of Client		1/s. Megawide Construction DMCC /o GMR Goa international Airport Limited			
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Repre	esentative			
Month of Sampling December 2020		020			
AMBIENT AIR LOCATION					
Location of ambient air station		Mopa(Goa State)			

		A PLANT OF STREET A D. A PART OF THE STREET AND A D.							
Location of ambient air station			Mopa(Goa State)						
	Average Ambient Temperature (°C)	31.1	Average Humidity (%)	72	Latitude	N 15º44'50.3"			
	Average Wind Speed (km/hr)	1.4	Average Wind direction(Deg)	215	Longitude	E.73051'37.8"			
Instruments Used FPS(APM-550), RDS(APM-460)&GPS(APM-411)									

Sr. Date of			PARAMETERS						
No	Sampling	Report No.	PM ₁₀	PM _{2.5}	SO ₂	NOx	со	SPM	
1	03/12/2020	SEE/AR/12/2020/0120	89.40	38.60	7.20	<9.00	0.05	365.47	
2	07/12/2020	SEE/AR/12/2020/0270	87.50	41,78	6.83	11.72	0.08	385,61	
3	10/12/2020	SEE/AR/12/2020/0416	88.66	45.91	19.25	<9.00	0.06	146.41	
4	14/12/2020	SEE/AR/12/2020/0488	79,04	22.64	10.19	<9.00	0.05	160.65	
5	17/12/2020	SEE/AR/12/2020/0620	35.59	40.10	<3.00	26,67	0.06	77.3	
6	21/12/2020	SEE/AR/12/2020/0755	79.96	48.60	<3.00	12.75	0.07	134,6	
7	24 <u>/</u> 12/2020	SEE/AR/12/2020/0900	66.47	29.20	7.98	25.12	0.09	141.20	
8	28/12/2020	SEE/AR/12/2020/0981	63.39	20.50	<3.00	<9.00	0.06	105.32	
9	31/12/2020	SEE/AR/12/2020/1080	44.70	25.16	9.87	15.25	0.08	103.84	
	NAAQS Limits*		100	60	80	80	4.	-	
Units			μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³	
		Method	IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

Analysed by Dipali Sawant

Authorized Signatory
Varsha Pole

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Maharashtra Stete, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 * E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

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

## Calibration details of Equipment used for Sampling & Analysis

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1899-DTJ-		24/07/2020	24/07/2021
		21/FLOW/541		

### **UV** Spectrophotometer

∃ Sr N	lo. I	Equipment Name	
			Calibration
01	- 1	UV	
l or	- 1	UV	In House Calibration
h			in riodae cumulanon

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

	17 4 4 4 4 4 4 4 4				_
31 140	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5120	20/02/2020	20/02/2021	ļ

#### CO METER

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



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SOME WHITER SINEURO

	STACK EMI	SSION REPORT			
Report No.	ort No. SEE/AR/12/2020/0987			01/01/2021	
Name of Client M/s, Megawide Construction DMCC C/o GMR Goa international Airport Limited					
Address of Client	Мора, Goa				
Sample Collected By	SEEPL Representative	Envir	onmenta	l condition of lab	
Date of Sampling	29/12/2020	Temperature(0C)	28.3	Humidity (%)	66
Analysis Started On	29/12/2020	Analysis Completed On 01/01/2021		,	

#### STACK DETAILS

Attached To	Diesel Generator (Caterpillar - 500 KVA) (Near ACC Plant)
Shape	Round
Diameter	0.15 Mtr
Height From Ground Level	5.0 Mtr
Material of Construction	M.S.
Temperature	335 °C
Velocity of Flue Gases	6.27 m/sec
Volumetric Flue Gas Flow Rate	399.52 m³/hour
Volumetric Flue Gas Flow Rate	195.52 Nm³/hour
Type of Fuel	H.S.D.
Fuel Consumption	20.00 lit/hr
Load	300.00 KVA (60%)

#### POLLUTIONAL PARAMETERS

Sr. No.	Parameter	Result	Limits**	Unit	Method
.01.	SO ₂	0.11	-	Kg/hour	IS 11255(Part II)
02.	NOx	0,17	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)

**As per Sr. No.94,95 and 96 of Schedule I of The Environmental (Protection ) rule 1986

Note: Test results related only to the sample tested.

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

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Analysed by

Susmita Kapdoskar

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: ; Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

① ; (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ● E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • сіл но. 045209МН199ВРТС-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)	ECL/SEEPL/2019-	10/03/2020	10/03/2021
		20/FLOW/5268A		

### 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 (Sl NO.5000391)	15/06/2020	14/06/2021



6-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Aflo, Old Betim Road, Bardez, Poryorim, Panaji-Goa-403 101, Goa State, India. (Ú.: (0832) 2411322 / 2411323 € E-mail : stariatogoa@redifinalt.com

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NOISE LEVEL MONITORING REPORT							
Report No. SEE/AR/12/2020/0489-0490, 0710, 0580, 0637, 0709, 0638, 0831-0832,0581,0782-0783 Report Date 26/12/2020							
Name of Client	Int M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited						
Address of Client	Mopa, Goa						
Sample Collected By	SEEPL Representative	***************************************	en en en en en en en en en en en en en e				

Sr. No	Date of Monitoring	Report No.	Station ID	Zone	Sampling Location		Day Tim pise in di			ight Tim se in dE	
110	momormg		יטו			Lmin	Lmax.	Leq	Lmin	Lmax	Leg
1,	14/12/2020	SEE/AR/12/2020/0490	G-N1		Мора	30.0	64.7	47.1	30.7	70.7	48.5
2.	14/12/2020	SEE/AR/12/2020/0489	G-N2	ı	Shemecheadvan	30.7	74.4	51.9	35.7	57.5	43.9
3.	18/12/2020	SEE/AR/12/2020/0710	G-N3	С	Nagzar	30.3	59.5	45.7	30.0	53.3	38.2
4.	16/12/2020	SEE/AR/12/2020/0580	G-N4	R	Purva Casarvarnem	30,1	70.7	52.3	31.4	49.1	40.5
5.	17/12/2020	SEE/AR/12/2020/0637	G-N5	R	Chandel	30.1	79.4	48.7	30.5	53.2	39.4
6.	18/12/2020	SEE/AR/12/2020/0709	G-N6	R	Khajne Amere Porscodem	31.9	73.9	44.8	30.0	63.5	37,5
7.	17/12/2020	SEE/AR/12/2020/0638	G-N7	R	Warkhand	30.1	73.1	51.2	30.2	73.5	38.7
₿.	23/12/2020	SEE/AR/12/2020/0831	G-N8	R	Rajvil Wada Torxem	31.3	66.6	45.2	31.0	47.4	38.4
9.	23/12/2020	SEE/AR/12/2020/0832	G-N9	С	Village Panchayat Tamboxem - Mopa- Ugvem	31.1	77.3	49.3	30.0	59.8	40.2
10.	16/12/2020	SEE/AR/12/2020/0581	M-N1	R	Satarda	30.8	56.0	42.9	31.5	52.3	35.1
11.	22/12/2020	SEE/AR/12/2020/0782	M-N2	R	Dingna	30.0	79,6	52,6	30.0	54.7	37.6
12.	22/12/2020	SEE/AR/12/2020/0783	M-N3	R	Netarde	30.3	75,3	49,5	30.0	60.3	40.2

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

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

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

Day time is reckoned in between 6.00am to 9.00pm and night time is reckoned in between 9.00pm to 6.00am.

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

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

- : Test results related only to the sample tested.
- : Test results relate only to the condition prevailing at the time of sampling
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Monitored by Sanjivan Gawas Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area Thane - 400 604; Maharashtra State, India.

(f): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@satekarenviro.com/psadekare@gmail.com

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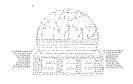
### Calibration Details of Equipment used for Sampling

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

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

### Noise Level Meter No.2 (A0114-1408)

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



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

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	ANALYSIS REPO	RT FOR WATER SAMPLE				
Report No.	SEE/12/2020/423	Report Date	04/0	1/2021		
Name of Client	M/s, Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
	1. ( ) 0014010000	+ 29/12/2020 Environmental Condition of Lab		Temp o		Humidity %
Order / Reference	As per dated 29/12/2020	CHAILOUMERING CONTINUE OF END	28.3	66		
Sampling point	Tillari Canal(TIP), At Nagz	ar Pumping Station				
Sample details	Surface water	Date of collection	29/1	2/2020		
Sample Collected by	SEEPL Representative	Sample Received On	29/1	29/12/2020		
Analysis Started On	29/12/2020	Analysis Completed On	04/0	1/2021		
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000	1000 ml + 4000ml		

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	7.41		6.5 - 8.5	APHA( 23rdEdition ) 4500 H+-B
2.	Turbidity	<1.00	UTM	1.00	APHA( 23 rd Edition ) 2130 B
3.	Taste	Agreeable	Ad	Agreeable	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23 [™] Edition ) 2120 B
5.	Odour	Agreeable	_	Agreeable	APHA( 23 rd Edition ) 2150 B
6.	Total Alkalinity	32.00	mg/lit	200.00	APHA( 23 rd Edition ) 2320 B
7.	Total Dissolved Solids	108.00	mg/lit	500.00	APHA( 23 rd Edition ) 2540 C
8.	Chlorides as Cl	12.01	mg/lit	250.00	APHA( 23rd Edition ) 4500 Cl B
9.	Sulphate as SO ₄	5,35	mg/lit	200.00	APHA( 23 rd Edition ) 4500 SO ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	30.00	mg/lit	200.00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23 rd Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0,1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991
		A.L. Server Personal State Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Com		Service 1 of 1	7. A. X. A.

Uchitá Dongare Analyzed by

chopdekar Varsha Pole **Authorized Signatory** 

HEAD OFF, & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India. Page 1 of 3

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

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

BRANCH OFF.

: 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ② : (0832) 2437048 / 2437164 E-majl : sadekarenviro@rediffmail.com ◆ Website : www.sadekarenviro.com ◆ cin No. U45209MH1998PTC-116379

Report No.	SEE/12/2020/423	Report Date	04/01/2021			
Order / Reference	As per dated 29/12/2020	Sample Received On	29/12/2020			
Analysis Started On	29/12/2020	Analysis Completed On	04/01/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CF C
15.	Nitrate as NO ₃	1.15	mg/lit	45.00	APHA( 23 rd Edition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23 rd Edition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 5530-B,C
18,	Cyanide	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 4500 CN -D
19.	Anionic Detergents	<0,10	mg/lit	0.20	APHA( 23 rd Edition ) 5540 - C
/letal	Analysis		***************************************		
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23rdEdition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23™Edition ) 3120 B

	J		1		· ·
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23 rd Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA( 23rdEdition ) 3120 B
23.	Calcium as Ca	3,20	mg/lit	75.00	APHA( 23rdEdition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23rdEdition ) 3120 B
25.	Iron as Fe	0.12	mg/lit	1.00	APHA( 23rdEdition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23rdEdition ) 3120 B
27.	Magnesium as Mg	5.37	mg/lit	30.00	APHA( 23rdEdition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
29,	Mercury às Hg	<0.001	mg/lit	0.001	APHA(23rdEdition) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA(23rdEdition) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
33,	Copper as Cu	<0.01	mg/lit	0,05	APHA( 23 rd Edition ) 3120 B
	1	4	1	L	

Usb Uchita Dongare Analyzed by

Varsha Pole
Authorized Signatory

Report No. SEE/12/2020/423		Report Date	04/01/2021			
Order / Reference	As per dated 29/12/2020	Sample Received On	29/12/2020			
Analysis Started On 29/12/2020		Analysis Completed On	04/01/2021			
Name of Client		M/s. Megawide Construction DMCC  C/o GMR Goa International Airport Limited				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition.) 9221-G

Note: Test results related only to the sample tested.

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

UD_-Uchita Dongare Analyzed by

Varsha Pole **Authorized Signatory** 

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



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	ANALYSIS REPO	ort for	WATER SAMPLE			
Report No.	SEE/12/2020/421	Report Date		04/01/2021		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 29/12/2020	Environmental Condition of Lab		Temp ⁰ C		Humidity %
Order / Reference	We her gared saustsoso			28.3		66
Sampling point	Borewell 1					
Sample details	Ground Water		Date of collection		29/12/2020	
Sample Collected by	SEEPL Representative		Sample Received On		29/12/2020	
Analysis Started On	29/12/2020		Analysis Completed On		04/01/2021	
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml	

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Ųnit	IS desirable Limit (As per IS 10500)	Method
1.	pĤ	6.90	-	6.5 - 8.5	APHA( 23 rd Edition ) 4500 H*-B
2.	Turbidity	<1.00	NŤU	1.00	APHA( 23 rd Edition ), 2130 B
3.	Taste	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odouř	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	114.00	mg/lit	200.00	APHA( 23rdEdition ) 2320 B
7.	Total Dissolved Solids	146.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as Cl	10.51	mg/lit	250.00	APHA( 23 rd Edition ) 4500 Cl B
9.	Sulphate as SO ₄ -	4.45	mg/lit	200.00	APHA( 23rdEdition ) 4500 SO ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO₃	108.00	mg/lit	200.00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23 rd Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0,50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/12/2020/421	Report Date	04/01/2021			
Order / Reference	As per dated 29/12/2020	Sample Received On	29/12/2020			
Analysis Started On	29/12/2020	Analysis Completed On	04/01/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CI- C
15.	Nitrate as NO ₃	<1.00	mg/lit	45,00	APHA( 23 rd Edition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1,00	APHA( 23rdEdition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23.dEdition) 5540 - C
letal	Analysis				
		1		1	1

	j	1		l'	
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23 rd Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA( 23 rd Edition ) 3120 B
23.	Calcium as Ca	14.42	mg/lit	75.00°	APHA( 23 rd Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	.0.003	APHA( 23 rd Edition ) 3120 B
25,	Iron as Fe	0.13	mg/lit	1.00	APHA( 23 ^{ng} Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	17.56	mg/lit	30.00	APHA( 23 rd Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
29.	Mercury as Hg	<0.001	mg/fit	0.001	APHA( 23rdEdition ) 3120 B
30,	Zinc as Zn	<0.01	mg/lit	5.00	APHA( 23rdEdition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
33,	Copper as Cu	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 3120 B
		1	<u> </u>	<u> </u>	-/

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Report No.	SEE/12/2020/421	Report Date	04/01/2021			
Order / Reference As per dated 29/12/2020		Sample Received On	29/12/2020			
Analysis Started On	29/12/2020	Analysis Completed On	04/01/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34,	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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



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	ANALYSIS REPOI	RT FOR WATER SAMPLE					
Report No.	SEE/12/2020/422	Report Date	04/	01/2021			
Name of Client	, .	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
Order / Deference	der / Reference As per dated 29/12/2020 Environmental Condition of Lab		Temp OC	Humidity %			
Order / Reference	As per dated 29/12/2020	Chairmingues optimization of reco	28.3	66			
Sampling point	Borewell 2						
Sample details	Ground Water	Date of collection	29/	29/12/2020			
Sample Collected by	SEEPL Representative	Sample Received On	29/	29/12/2020			
Analysis Started On	29/12/2020	Analysis Completed On	04/	04/01/2021			
Sample Container	Glass bottle + PVC Can	Sample Quantity	100	1000 ml + 4000ml			

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	7.06	-	6.5 - 8.5	APHA( 23rdEdition ) 4500 H*-B
Ż.	Turbidity	<1.00	NTU	1.00	APHA(23 rd Edition) 2130 B
3.	Taste	Agreeable	<b>V</b> 44	Agreeable	APHA( 23 rd Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odour Odour	Agreeable	_	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	104.00	mg/lit	200.00	APHA( 23 rd Edition ) 2320 B
7.	Total Dissolved Solids	160.00	mg/lit	500,00	APHA( 23 rd Edition ) 2540 C
8.	Chlorides as CI	13.01	mg/lit	250.00	APHA( 23rdEdition ) 4500 CF B
9.	Sulphate as SO ₄ -	32.23	mg/lit	200,00	APHA( 23™Edition ) 4500 SO₄E
10,	Sulfides	<0.05	mg/lit	0,05	APHA( 23 rd Edition ) 4500 S ² F
11.	Total Hardness as CaCO₃	92.00	mg/lit	200,00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23rdEdition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0,50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/12/2020/422	Report Date	04/01/2021
Order / Reference	As per dated 29/12/2020	Sample Received On	29/12/2020
Analysis Started On	29/12/2020	Analysis Completed On	04/01/2021
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Li	mited	

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23 rd Edition ) 4500 Cl- C
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	APHA( 23 rd Edition ) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23 rd Edition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA(23dedition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA( 23 rd Edition ) 5540 − C
letai	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23 rd Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA( 23 rd Edition ) 3120 B
23.	Calcium as Ca	21.64	mg/lit	75.00	APHA( 23rdEdition ) 3500Ca B
24.	Cadmium as Cd	<0,001	mg/lit	0,003	APHA( 23 rd Edition ) 3120 B
25,	Iron as Fe	0.08	mg/lit	1.00	APHA( 23 rd Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	9.25	mg/lit	30.00	APHA( 23 [™] Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23 rd Edition ) 3120 B
30.	Zinci as Zn	<0.01	mg/lit	5.00	APHA( 23 rd Edition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
-			+		

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Copper as Cu

33.

Sensing S

0.05

mg/lit

<0.01

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APHA( 23rdEdition ) 3120 B

Report No.	SEE/12/2020/422	Report Date	04/01/2021
Order / Reference	As per dated 29/12/2020	Sample Received On	29/12/2020
Analysis Started On	29/12/2020	Analysis Completed On	04/01/2021
Name of Client	M/s. Megawide Construction DMC C/o GMR Goa International Airpo		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	I Absent I Mer		Absent	APHA( 23™Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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



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	ANALYSIS REPO	RT FOR WATER SAMPLE						
Report No.	SEE/12/2020/425 Report Date 04/0			04/01/	2021			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa							
A.J	4 00/40/2020	Environmental Condition of Lab	Temp	9 C	Humidity %			
Order / Reference	As per dated 29/12/2020	0 Environmental Condition of Fab		.3	66			
Sampling point	LSC Labour Colony							
Sample details	Drinking Water	Date of collection		29/12/	2020			
Sample Collected by	SEEPL Representative	Sample Received On	Sample Received On		29/12/2020			
Analysis Started On	29/12/2020	Analysis Completed On		04/01/2021				
Sample Container	Glass bottle	Sample Quantity		1000 r	ml			

Microbiological Parameters

Sr. No.	Parameter	Result Unit Limit (As per IS 10500)		Method .	
1.	MPN Absent MPNIndex/10		MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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Website : www.sadekarenviro.com 

CIN No. U45209MH1998PTC-116379

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	d Certificate No. Calibrat		Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44,5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	SEE/12/2020/426	SEE/12/2020/426 Report Date			2021
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Deference	An per defed 20/42/2020	Environmental Condition of Lab	Tem	0 C	Humidity %
Order / Reference	As per dated 29/12/2020	CHAROUNICHEST CONDITION OF LSS	28.3		66
Sampling point	PTB Tank				
Sample details	Drinking Water	Date of collection		29/12/	/2020
Sample Collected by	SEEPL Representative	Sample Received On	#	29/12/2020	
Analysis Started On	29/12/2020	Analysis Completed On		04/01/	2021
Sample Container	Glass bottle	Sample Quantity		1000 r	nl

Microbiological Parameters

Sr. No.	Latamotor   Macilit		Unit	IS desirable Limit (As per IS 10500)	Method
1.	1. MPN Absent		.MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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C-	Sr. Equipment Name			Calibration Details		
		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	RT FOR	R WATER SAMPLE			
Report No.	SEE/12/2020/427	SEE/12/2020/427 Report Date			04/01/	2021
Name of Client	M/s. Megawide Construction C/o GMR Goa International			,,,,	1	
Address of Client	Mopa, Goa					
Order / Deference	As par dated 20/12/2020	Environmental Condition of Lab		Temp 0		Humidity %
Order / Reference	As per dated 29/12/2020			28.3		66
Sampling point	R R Canteen					
Sample details	Drinking Water		Date of collection		29/12/2020	
Sample Collected by	SEEPL Representative	A. MARIO, A. P. I. M. I. V. I. L. P.	Sample Received On		29/12/2020	
Analysis Started On	29/12/2020		Analysis Completed On		04/01/2021	
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	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23@Edition ) 9221-G

Note: Test results related only to the sample tested.

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Sr. No.	Equipment Name	Equipment   Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44,5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	ORT FOR WATER SAMPLE					
Report No.	SEE/12/2020/428	Report Date	04/01	/2021			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 29/12/2020	lated 29/12/2020 Environmental Condition of Lab		per dated 29/12/2020 Environmental Condition of Lab		Humidity %	
		30311301103 233	28.3	66			
Sampling point	VNC Colony			and the matter H and make a construction of the provider person providers and			
Sample details	Drinking Water	Date of collection	29/12	/2020			
Sample Collected by	SEEPL Representative	Sample Received On	29/12	29/12/2020			
Analysis Starled On	29/12/2020	Analysis Completed On	04/01/	2021			
Sample Container	Glass bottle	Sample Quantity	1000 i	1000 ml			

Microbiological Parameters

Sr. No:	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44,5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(.23 rd Edition.). 9221-G

Note: Test results related only to the sample tested.

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/12/2020/429	SEE/12/2020/429 Report Date					
Name of Client	1	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
Order / Reference	As per dated 29/12/2020	As any detect 20/42/2/20 Environmental Condition of Lab		As per dated 29/12/2020 Environmental Condition of Lab		Humidity %	
Order / Melerance	As per dated 25/12/2020	Entry of the teather contagen of the	28.3	66			
Sampling point	ATC Tank						
Sample details	Drinking Water	Date of collection	29/12	29/12/2020			
Sample Collected by	SEEPL Representative	Sample Received On	29/12/2020				
Analysis Started On	29/12/2020	Analysis Completed On	04/01	/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/100mi	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5ºC for 24hrs.	Ábsent	MPNIndex/100ml	Absent	ÅPHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	ORT FOR WATER SAMPLE	- 400			
Report No.	SEE/12/2020/430 Report Date		04/01/20	)21		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
0.1(D.f.	An man destand 20/40/0000	Environmental Condition of Lab	Temp OC	Humidity %		
Order / Reference	As per dated 29/12/2020	Environmental Condition of Lab	28.3	66		
Sampling point	STP					
Sample details	Inlet Water	Date of collection	29/12/20	20		
Sample Collected by	SEEPL Representative	Sample Received On	29/12/20	29/12/2020		
Analysis Started On	29/12/2020	Analysis Completed On	04/01/20	04/01/2021		
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml	1000 ml + 1000ml		

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1,	рН	6.89	w	APHA( 23™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)	208.25	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	123.00	mg/lit	APHA( 23 rd Edition ) 2540-D
5.	Oil & Grease (O & G)	29.20	mg/lit	APHA( 23™Edition ) 5520-O &G
6.	Ammonia	18.90	mg/lit	APHA( 23 rd Edition ) 4500 NH₃B C
7.	Phosphate as PO ₄	35.19	mg/lit	APHA( 23 rd Edition ) 450 PC

Note: Test results related only to the sample tested.

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	Equipment Name			Calibrat	ion Details	
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021	
02,	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021	
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021	
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021	
05.	U V Spectrophotometer	Q/0166	7	Inhouse Calibration		



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Sove Water

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	ANALYSIS REPO	ORT FOR V	VATER SAMPLE			
Report No.	SEE/12/2020/431	12/2020/431 Report Date 04/01/2021				
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
	4 1 1 00 110 10000	l" ny decen	Environmental Condition of Lab		Humidity %	
Order / Reference	As per dated 29/12/2020	ETIAIIOHHISHISH COHORIOH OF FUR		28.3	66	
Sampling point	STP		nne fildelige fan i bene de beseen fan ferske kiel 1964 filde 1964 1969 1969 1969 1969 1969 1969 1969	and the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmission of the same transmis		
Sample details	Outlet water		Date of collection	29/12/2020		
Sample Collected by	SEEPL Representative		Sample Received On	29/12/2020		
Analysis Started On	29/12/2020		Analysis Completed On	04/01/2021		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml		

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method			
1.	рН	7.25	-	5.5 – 9.0	APHA(23 rd Edition) 4500 H+-B			
2.	Chemical Oxygen Demand (COD)	164.00	mg/lit	250.00	APHA( 23 rd Edition ) 5220-B			
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	24.96	mg/lit	30.00	IS 3025 (Part 44)			
4.	Total Suspended Solids (TSS)	58.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D			
5,	Oil & Grease (O & G)	6.00	mg/lit	10.00	APHA( 23 rd Edition ) 5520-O &G			
6.	Ammonia	5.60	mg/lit	50.00	APHA( 23 rd Edition ) 4500 NH₃B C			
7.	Phosphate as PO ₄	4.93	mg/lit	5.00	APHA( 23rdEdition ) 450 P C			

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

Note: Test results related only to the sample tested.

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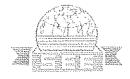
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	Equipment Name			Calibration Details	
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
05,	U V Spectrophotometer	Q/0166	_	Inhouse Calibration	



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Rep	ort Date	03/12/2020	·			***************************************		2101.000 7	
Nar	ne of Client	M/s. Megawio C/o GMR Goa							
Ade	iress of Client	Mopa, Goa			THE THE TAXABLE PARTY AND ADDRESS OF THE PARTY			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
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Мог	nth of Samplin	g November 20	20						· · · · · · · · · · · · · · · · · · ·
				AMBIEN	TAIR LOCATION	ł		,	
Loc	ation of ambie	nt air station	Sata	rda (Mahar	ashtra State)				
Ave	rage Ambient	Temperature (°C)	30.1	Average	Humidity (%)	75	Latitude	N15º45'0	1.3"
Ave	rage Wind Spe	ed (km/hr)	1.5	Average	Wind direction(Deg	) 289	Longitude	E 73º48'0	0.2"
Instruments Used FPS				S(APM-550), RDS(APM-460)&GPS(APM - 411)					
Sr.	Date of	Report No.		PARAMETERS					
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	ÇO	SPM
1	03/11/2020	SEE/AR/11/2020/0	0039	69,32	20.00	5.74	9.52	0.05	175.32
2	06/11/2020	SEE/AR/11/2020/0	)124	88.79	51.56	<3.00	<9.00	0.03	184.92
3	09/11/2020	SEE/AR/11/2020/0	01.68	58.27	36.80	5.53	<9.00	0.05	161.28
4	12/11/2020	SEE/AR/11/2020/0	)248	46.78	24.31	<3.00	12.66	0.07	170.40
5	16/11/2020	SEE/AR/11/2020/0	)279	30.88	17,65	<3.00	<9.00	0.06	158.44
6	19/11/2020	SEE/AR/11/2020/0	370	25.05	16.43	<3.00	9.03	0.04	142.63
7	23/11/2020	SEE/AR/11/2020/0	)442	34.90	17.40	<3,00	<9.00	0.06	164.20
8	26/11/2020	SEE/AR/11/2020/0	)486	52.92	44.28	<3.00	<9.00	0.07	185.64
9	30/11/2020	SEE/AR/11/2020/0	)551	39.74	21.35	<3.00	<9.00	0.05	181.33
	NAA	QS Limits*		100	60	80	80	4.	_
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³
no va ona sa sovania.	Method			IS 5182( Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182( Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

①: (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@sadekarenviro.com / psadekár5@gmail.com

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

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

E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * CIN No. U45299MH1998PTC-116379

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

### UV Spectrophotometer

Sr N		Calibration
01	UV	In House Calibration

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

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

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



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

SAVE WATER SAVE UPC

Lab. accredited by NABI. Valid up to 29.06.2021 & Certified by ISO 9001;2015 & ISO 45001;2018

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Report Date 03/12/2020										
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Ado	dress of Client		Mopa, Goa			***************************************	711.16.17.71		TOTATE SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELECTION SELEC	
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Мо	nth of Sampli	ng	November 20	20						
					AMBIEN	T AIR LOCATION	V			
Loc	ation of ambie	ent air	r station	Neta	arde (Maha	rashtra State)				
Ave	rage Ambient	Tem	perature (ºC)	31.6	Average	Humidity (%)	74	Latitude	N 15º45'	10.7"
Ανε	rage Wind Sp	eed (1	km/hr)	1.2	Äverage	Wind direction(Deg	g) 256	Longitude	E 73º53'	47.0"
Instruments Used FPS				FPS	(APM-550),	RDS(APM-460)&G	PS(APM - 4	111)		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
Sr.	Date of		Report No.		PARAMETERS					
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	SO₂	ΝOχ	со	SPM
1	03/11/2020	SEE	/AR/11/2020/0	044	48.10	14.22	5.14	9.12	0.04	163.87
2	06/11/2020	SEE	/AR/11/2020/0	129	52.47	11.39	<3.00	<9.00	0.06	172.63
3	09/11/2020	SEE	/AR/11/2020/0	173	60.22	22.36	<3.00	<9.00	0.06	181.74
4	12/11/2020	SEE	/AR/11/2020/0	253	69.13	19.53	<3.00	<9.00	0.03	185.22
5	16/11/2020	SEE	/AR/11/2020/0	284	35.51	20.72	<3.00	<9.00	0.05	142.66
6	19/11/2020	SEE	/AR/11/2020/0	375	41.95	20.18	<3.00	<9.00	0.07	158.59
7	23/11/2020	SEE	/AR/11/2020/0	447	53.63	28.53	<3.00	<9.00	0.05	167,25
8	26/11/2020	SEE	/AR/11/2020/0	491	62.06	50.46	11.84	<9.00	0.08	179.11
9	30/11/2020	SEE	/AR/11/2020/0	556	41.03	18.70	<3.00	<9.00	0.05	152.46
	NAA	QS Li	mits*		100	60	80	-80	4	•
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**********	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.

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thone - 400 604. Maharashtra State, Inuia.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

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

### Respirable Dust Sampler's with Gaseous Sampling

	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1897-DTJ-2014)	ECL/SEEPL/2020-	25/07/2020	25/07/2021
		21/FLOW/550		

### UV Spectrophotometer

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

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5119	20/02/2020	20/02/2021

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



B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verom, Alto, Old Betlin Road, Bardez, Porvorim, Panaji-Gen-403 101, Goa State, India. Ø .: (0832) 2411322 / 2411323 PE-mail : starlabgoa@rediffmail.com

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Lab. accredited by NABL, Valid up to 29.06.2021 * Certified by ISO 9001;2015 & ISO 45001 ; 2018

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Report Date 03/12/2020											
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Ada	ress of Client		Mopa, Goa		d i Mary In 11 i Miljing Dar Annyger of Hill years y responses				Make a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a superior and a		
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Моз	nth of Samplir	ıg	November 20	20	WWW. DOWN CO. CO. CO. CO. CO. CO. CO. CO. CO. CO.					· (4,4,	
					AMBIEN	TAIR LOCATIO	N				
Loc	ation of ambie	nt ai	r station	Ding	na (Mahara	ashtra State)	ad Printing a security can be seen in the death of the difference of the death of the difference of the death of the difference of the death of the difference of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of the death of			NT A	
Ave	rage Ambient	Tem	perature (°C)	30,9	Average	Humidity (%)	8	6	Latitude	N 15º47'1	1.3"
Ave	rage Wind Spe	ed (	km/hr)	1.6	Average	Wind direction(De	g) 3	10	Longitude	E 73º53'1	1.6"
Instruments Used FPS				FPS(	G(ΛPM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of		Desert No.		PARAMETERS						
No	Sampling	- Andreadous de la constante de la constante de la constante de la constante de la constante de la constante d	Report No.		PM:0	PM _{2.5}	S	)2	NOx	CO	SPM
1	03/11/2020	SEE	/AR/11/2020/0	043	67.54	28.59	6.3	12	9.30	0.07	183.65
2	06/11/2020	SEE	/AR/11/2020/0	128	79.54	59.42	<3.	00	<9.00	0.05	189.11
3	09/11/2020	SEE	/AR/11/2020/0	172	67.70	20.42	<3.	00	9.16	0.08	185.36
4	12/11/2020	SEE	/AR/11/2020/0	252	50.07	38.13	<3.	00	<9.00	0.05	167.44
5	16/11/2020	SEE	/AR/11/2020/0	283	26.00	11,48	<3.	00	<9.00	0.08	130.56
6	19/11/2020	SEE	/AR/11/2020/0	374	27.70	21.48	5.8	18	18.91	0.06	136.17
7	23/11/2020	SEE	/AR/11/2020/0	446	40.25	14.55	<3.	00	<9.00	0.03	160.68
8	26/11/2020	SEE	/AR/11/2020/0	490	57.04	24.62	14.	18	<9.00	0.05	174.52
9	30/11/2020	SEE	/AR/11/2020/0	555	44.84	28.61	<3,	00	<9.00	0.07	164.96
	NAA	QS Li	mits*		100	60	81	)	80	4	-
		Unit	S		$\mu \mathrm{g}/\mathrm{m^3}$	μg/m³	μg/	m³	μg/m³	mg/m³	μg/m³
	1	vietho	ď		IS 5182( Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04	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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: 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.

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

② : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • CIN No. L/45209MH1998PTC-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. 2228-DTK-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2011)	20/FLOW/5137		

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration		
01	UV	In House Calibration		

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

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

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



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

SHIVE LIFE

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SAVE LUMER

	A. A. A. A. A. A. A. A. A. A. A. A. A. A	to construct to constitution	AMBIEN	T A!	R QUAL	ITY MONITOR	ING R	EPORT			
Rep	ort Date		03/12/2020		Andrews of Armed 1   2   1   1   1   1   1   1   1   1						
Nan	ne of Client		M/s. Megawid C/o GMR Goa						THE STREET STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STR	A. 200 B. A000-17-10-1	
Add	lress of Client		Mopa, Goa								
San	ple Collected .	Ву	SEEPL Repres	entati	ve						
Moi	nth of Samplin	g	November 202	20			gantiga sa hang ngista a silah adan kalambadan kalambadan kalambadan kalambadan kalambadan kalambadan kalambad		CONTRACTOR OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE	***************************************	
					AMBIENT	AIR LOCATIO	Ŋ				
Loc	ation of ambie	nt air	station	Nagz	or (Goa Sta	te)	5 17.5. gas 500m 65.000 meres 6000	A Rombat 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		
Ave	rage Ambient	Temp	erature (°C)	31.5	Average	Humidity (%)	72	Latitude	N 15º42'3	7.3"	
Ave	rage Wind Spe	ed (k	m/hr)	2,1	Average	Wind direction(De	eg) 32	1 Longitude	E 73º51'1	4.22"	
Inst	ruments Used			FPS(	PS(APM-550), RDS(APM-460)&GPS(APM – 411)						
Sr.	Date of		b		PARAMETERS						
No	Sampling		Report No.		PM ₁₀	PM _{2,5}	SO ₂	NO _x	CO	SPM	
1	03/11/2020	SEE/	/AR/11/2020/0	040	43.45	16.20	7.12	13.26	0.06	156.33	
2	06/11/2020	SEE	/AR/11/2020/0	0125	39:35	15.05	<3.00	<9.00	0.07	151.47	
3	09/11/2020	SEE/	/AR/11/2020/0	)169	66.33	23.36	<3.00	13.19	0.08	184.22	
4	12/11/2020	SEE/	/AR/11/2020/0	)249	62.23	24.06	5.34	<9.00	0.08	180.96	
5	16/11/2020		/AR/11/2020/0		44.23	11,48	12.50	<9.00	0.05	160.37	
6	19/11/2020	SEE/	/AR/11/2020/0	371	29.71	14.60	8.50	11.21	0.06	142.73	
7	23/11/2020	SEE/	/AR/11/2020/0	)443	50.73	30.12	<3.00	<9.00	0.03	167.69	
8	26/11/2020	SEE/	/AR/11/2020/0	)487	52.79	24.54	<3.00	<9.00	0.05	171.63	
9	30/11/2020	SEE	/AR/11/2020/0	)552	44.32	20.17	<3.00	15.67	0.06	165.44	
	NAA	QS Lin	nits*		100	60	80	80	4:	-	
	\$40 (\$10) \$40 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$10) \$10 (\$	Units			μg/ m³	μg/m³	μg/m³		mg/m³	μg/m³	
	]	Method	1		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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: Test methods of analyzed parameters are back side of analysis report.

Analysed by Dipali Sawant

Nopobalexax Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

 $(O: \{91\text{-}22\}\ 2503\ 3321\ /\ 2583\ 3322\ /\ 2503\ 3323\ /\ 2583\ 3324 \bullet \ E-mail: prs@sadekarenviro.com\ /\ psadekar5@gmail.com\ /\ psadekar5@gmai$ 

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E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • CIN No. U45209MH1998PTC-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. 1723-DTI-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2012)	20/FLOW/5138	· ·	, .

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01		In House Calibration

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

Sr No.	Equipment Name	Certificate No.	Calibrated on Calibration due dat				
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5116	20/02/2020	20/02/2021			

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



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		AMBIEN	T AIF	R QUAL	ITY MONITOR	RING	RE	PORT		
Report Date 03/12/2020									The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	ne of Client	M/s. Megawi C/o GMR Goa	de Con interr	struction national A	DMCC irport Limited					
Add	lress of Client	Mopa, Goa								
San	ple Collected	By SEEPL Repre	sentati	ive						
Mor	ith of Samplin	g November 20	20							
alaa a Nomen ee			1	MBIEN.	T AIR LOCATIO	N				
Loc	ation of amble	nt air statíon	Khaja	ane Ambei	re, Porsakade V.P (	Goa S	tate)		A	a presidente de servicio de ser seguido de desenta
Ave	rage Ambient	Temperature (°C)	31.4	Average Humidity (%) 78 Latitude N 15°43'38				8.0"		
	rage Wind Spe	······································	1.1	Average Wind direction(Deg) 302 Longitude E 73º49'21.4"					1.4"	
	ruments Used		FPS(APM-550), RDS(APM-460)&GPS(APM - 411)							
Sr.	Date of		1	PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	S	<b>D</b> ₂	NOx	co	SPM
1	16/11/2020	SEE/AR/11/2020/	0282	30.75	15.32	<3	.00	<9.00	0.07	174.62
2	19/11/2020	SEE/AR/11/2020/	0373	27.92	13.43	<3	.00	12.61	0.03	168.24
3	23/11/2020	SEE/AR/11/2020/	0445	57.74	15.22	<3	.00	<9.00	0,05	179.12
4	26/11/2020	SEE/AR/11/2020/	0489	60.43	30.81	<3	.00	20.79	0.07	184.36
5	30/11/2020	SEE/AR/11/2020/	0554	40.30	22.46	6,	60	14.09	0.05	176.85
NAAQS Limits*				100	60	8	0	80	4	-
		Units		μg/ m³	μg/m³	µg/	m³	μg/m³	mg/m³	μg/m³
Method			IS 5182( Part 23)	Lab SOP NO.: SEF/LD/SOP-AA-04	1	182 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
- : 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.

Dipali Sawant

VehopdeKax Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.L.D.C. Wagle Industrial Area, Thane - 400 604. Maherashtra State, India.

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

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

### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	1	Calibration due date
01	RDS- APM 460 BL(SR NO.2028-DTD-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
	2016)	21/FLOW/584		

### UV Spectrophotometer

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- 1	Sr No.	Equipment Name	_ 101
Ļ			Calibration
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### Fine Particulate Sampler (SR No. 288-DTJ-2014)

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

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



B-306/307, Plot No. 61, Patel Estolo, Rois Magos, Verem, Alto, Old Belim Road, Bardez, Perverim, Panaji-Goa-403 101. Goa State, India. ② .: (0832) 2411322 / 2411323 ● E-mail : starlabgoa@rediffmail.com

Lab. accredited by NABL, Valid - up to 29.06.2021 - Certified by ISO 9001:2015 & ISO 45001:2018

SAVE LIMITER SAVE UFE

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Rep	Report Date 03/12/2020									
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Loc	ation of ambie	nt air :	station	Shei	necheadvan	(Goa State)				
Ave	rage Ambient	Tempe	erature (ºC)	30.5	Average	Humidity (%)	74	Latitude	N 15º44'(	06.1"
Ave	rage Wind Spe	ed (kr	n/hr)	1.2	Average	Wind direction(De	g) 325	Longitude	E 73º51'3	1.5"
Inst	Instruments Used FPS				APM-550), I	RDS(APM-460)&GI	² S(APM - 4	11)		-
Sr. Date of B. (4)				PARAMETERS						
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	ÇO	SPM
1	03/11/2020	SEE/	AR/11/2020/0	046	84.64	43.33	5.11	14.12	0.03	336,63
2	06/11/2020	SEE/	AR/11/2020/(	131	90.97	38.55	<3.00	<9.00	0.05	344.12
3	09/11/2020	SEE/	AR/11/2020/0	175	92.49	40,24	9.67	22.79	0.05	365.58
4	12/11/2020	SEE/	AR/11/2020/0	255	81.99	45.26	<3.00	11.21	0.06	352.16
5	16/11/2020	SEE/	AR/11/2020/0	286	75.20	57,39	<3.00	16.19	80.0	345.23
6	19/11/2020	SEE/	AR/11/2020/0	377	57.18	40.39	<3.00	16.30	0.06	339.42
7	23/11/2020	SEE/A	AR/11/2020/0	449	70.75	55.63	<3.00	22.80	0.05	356.69
8	26/11/2020	SEE/A	AR/11/2020/0	493	86.14	37.48	5.31	17.89	0.09	374.94
9	30/11/2020	SEE/A	AR/11/2020/0	558	80.36	35.63	<3.00	13.22	0.06	367.14
	NAA	QS Lim	its*		100	60	80	80	4	*
		Units			$\mu g/m^3$	μg/m³	μg/m³	μg/m³	mg/m³	μg/m³
	Method			IS 5182( Part 23)	Lab SOP NO.; SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 ( Part IV)	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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

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: Calibration details of 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.

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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### Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01.	RDS- APM 460 BL(SR NO.1904-DTJ-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
	2014)	21/FLOW/548		

### **UV** Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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



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				/	AMBIENT	AIR LOCATION	Ą				
Loc	ation of ambie	nt air	station	Rajvo	elwada, Toi	rxem-Pernem (Goa	State	)			
Ave	rage Ambient	Temp	erature (°C)	31.8	Average	Average Humidity (%) 74 Latitude N 15°46'40.0"					10.0"
Ave	rage Wind Spe	ed (k	m/hr)	1.8	Average Wind direction(Deg) 279 Longitude E 73°50′57.2"						
Inst	ruments Used			FPS(APM-550), RDS(APM-460)&GPS(APM - 411)							
Sr.	Date of		and the second second second second second second second second second second second second second second second		PARAMETERS						
No	Sampling		Report No.	Ī	PM ₁₀	PM _{2.5}	S	O ₂	NOx	CO	SPM
1	16/11/2020	SEE	/AR/11/2020/0	0285	80.58	22.86	<3	3.00	12.36	0.03	178.24
2	19/11/2020	SEE	/AR/11/2020/0	0376	77.47	24.45	14	.30	<9.00	0.06	171.69
3	23/11/2020	SEE/	/AR/11/2020/0	0448	93.74	48.44	<3	3,00	<9.00	0.05	185.74
4	26/11/2020	SEE/	/AR/11/2020/0	0492	79.20	36.86	4.	39	<9.00	0.08	174.51
5	5 30/11/2020 SEE/AR/11/2020/0557				85.44	40.27	<3	3.00	<9.00	0.07	184.80
NAAQS Limits*				100	60	{	30	80	4	•	
Units					μg/ m³	μġ/m³		/n1 ³	μg/m³	mg/m³	μg/m³
	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)

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.

Dipali Sawant

Authorized Signatory Varsha Pole

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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-		29/07/2020	29/07/2021
	2016)	21/FLOW/583		

### **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	ECL/SEEPL/2019-20/FLOW/5141	21/02/2020	21/02/2021

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



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		AMBIE	NT A	IR QUAL	ITY MONITO	RING	REF	PORT		
Re]	port Date	03/12/2020		Tradition Transcript Annie (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990)				Philippine		
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Мо	nth of Sampli	ng November 2	)20		1, 11, 11, 11, 11, 11, 11, 11, 11, 11,	t out to a compression of a property of		***************************************		
				AMBIEN	T AIR LOCATIO	N		**************************************	**************************************	
Loc	ation of ambi	ent air station	Moj	pa (Goa Stat	:e)	······				
Ave	erage Ambient	Temperature (°C)	30.2	2 Average	Humidity (%)	70	file damela a Muse file a supremi	Latitude	N 15º44'	50.3"
Ανε	erage Wind Sp	eed (km/hr)	1.3	Average	Wind direction(De	g) 28	8	Longitude	E 73º51'	
Inst	truments Used		FPS	(APM-550),	RDS(APM-460)&0	PS(APM	- 41	L1)	I	HIII bellevil
Sr. Date of			PARAMETERS							
No	Sampling	Report No.		PM ₁₀	PM _{2,5}	SO ₂	!	NO _X	co	SPM
1	03/11/2020	SEE/AR/11/2020,	0047	79.32	30.69	5.44	<del></del>	17.80	0.06	370.21
2	06/11/2020	SEE/AR/11/2020,	0132	82.53	33.43	<3.00	0	<9.00	0.03	377.14
3	09/11/2020	SEE/AR/11/2020,	0176	87.29	56.57	6.32		18.37	0.05	384.29
4	12/11/2020	SEE/AR/11/2020,	0256	62.73	38.13	<3.00	0	<9.00	0.04	356.32
5	16/11/2020	SEE/AR/11/2020,	0287	68.63	15.97	<3.00	)·	<9.00	0.05	361,84
6	19/11/2020	SEE/AR/11/2020,	0378	54.52	36.09	<3.00	)	12.46	0.06	348.26
7	23/11/2020	SEE/AR/11/2020/	0450	66.68	32.68	<3.00	)	11.96	0,03	365.74
8	26/11/2020	SEE/AR/11/2020/	0494	60.51	47.90	6,91		16.05	0.05	358.69
9	30/11/2020	SEE/AR/11/2020/	0559	36.65	18.28	<3,00	)	9.55	0.07	333.44
	NAA	QS Limits*		100	60	80		80	4	-
		Units		μg/ m³	μg/m³	μg/m	3.	μg/m³	mg/m³	μg/m³
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (Part 0:	į.	IS 5182 (Part 06)	IS 5182( Part 10)	IS 5182 ( Part (V)

*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.

Analysed by Dipali Sawant

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HEAD OFF, & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

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BRANCH OFF.

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

E-mail ; sadekarenviro@rediffmail.com ♥ Website ; www.sadekarenviro.com ♥ CIN No. U45209MH1998PTC-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.1899-DTJ-	ECL/SEEPL/2020-	24/07/2020	24/07/2021
	2014)	21/FLOW/S41		

### **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	ECL/SEEPL/2019-20/FLOW/5120	20/02/2020	20/02/2021

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



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			AMBIEN	TAI	R QUAL	ITY MONITOR	INC	G RE	PORT	8-8	
Report Date 03/12/2020			***************************************				the destruction of the section destruction	nt frankti filologia anno fra francisco de antien casa cas cas cas cas cas cas cas cas ca			
Name of Client  M/s. Megawide C/o GMR Goa is						Anna de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión d					
Add	lress of Client		Mopa, Goa								.,
San	ple Collected	Ву	SEEPL Repres	entati	ve						The second reasons access to the second
Moi	ith of Samplin	ıg	November 202	20							***************************************
					AMBIENT	AIR LOCATION	V			, , , , , , , , , , , , , , , , , , , ,	
Location of ambient air station Pur			Purv	a Casarvar	nem (Goa State)						
Average Ambient Temperature (°C) 31.			31.6	Average Humidity (%) 90 Latitude N 15º42'41.9"				41.9"			
Average Wind Speed (km/hr) 1.2			1.2	Average Wind direction(Deg) 274 Longitude E 73°52'16.6"							
Inst	ruments Used			FPS(	PS(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sŕ.	Date of		D(N-		PARAMETERS						
No	Sampling		Report No.		PM ₁₀	PM _{2,5}		O ₂	NOx	CO	SPM
1	16/11/2020	SEE	E/AR/11/2020/0	0281	30.65	18.47	<;	3.00	<9.00	0.06	164.62
2	19/11/2020	SEE	E/AR/11/2020/0	0372	26.55	20.87	<:	3.00	16.52	0.08	156.47
3	23/11/2020	SEE	E/AR/11/2020/0	0444	69.15	21.41	< ;	3.00	<9.00	0.07	178.12
4	26/11/2020	SEE	E/AR/11/2020/0	0488	58.20	44.28	<;	3.00	<9.00	0.05	165.89
5	30/11/2020	SEE	E/AR/11/2020/0	5553	45.59	31.89	5	.09	16.39	0.07	171.96
	NAA	QS Li	imits*		100	60	1	30	80	4	
		Unit	S		μg/ m³	μg/m³	1	/m³	μg/m³	mg/m³	μg/m³
Method				IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	1	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.

Analysed by Dipali Sawant

Vohopdekax Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Meharashtra State, India.

①: (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@sadekarenviro.com / psadekar5@gmail.com

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

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

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

### Respirable Dust Sampler's with Gaseous Sampling

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

### UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

- 1	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
1	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/1856	16/10/2020	16/10/2021

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



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		**************************************	AMBIEN	IT A	IR QUAL	ITY MONITOR	RIN(	S RE	PORT		**************************************	
Report Date 18/11/2020			***************************************	**************************************					Y 11 MINOR (MINOR AND A 12 A 12 A 12 A 14 A 14 A 14 A 14 A 14			
Name of Client M/s. Megawide C C/o GMR Goa int						non a namenan anun maa						
Ado	lress of Client		Mopa, Goa									
San	ple Collected	Ву	SEEPL Repres	entat	ive	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***************************************	and the foreign and the same of the same	
Мо	nth of Samplin	ıg	November 20	20	***************************************	**************************************	4.,	***************************************				
· · · · · · · · · · · · · · · · · · ·	***************************************				AMBIEN	TAIR LOCATIO	N		Chail At 1 A Chair Laidh La Cadhaid Laidhe le ann ann aite ann an Aireann			
Location of ambient air station Kat			Katv	val (Goa Sta	ite)							
Average Ambient Temperature (°C) 3			30.7	Average Humidity (%) 82 Latitude N 15°42'5			<del>58.</del> 3"					
Average Wind Speed (km/hr)		1.3	Average Wind direction(Deg) 265 Longitude E 73°53'57.0"						57.0"			
lnst	ruments Used			FPS(	S(APM-550), RDS(APM-460)&GPS(APM - 411)							
Sr.	Date of		**************************************		PARAMETERS							
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	8	O ₂	NO _X	со	SPM	
1	03/11/2020	SEE	C/AR/11/2020/0	0041	49.01	27.18	6	.32	9,74	0.06	164.82	
2	06/11/2020	SEE	/AR/11/2020/0	0126	76:20	25.09	<3.00		<9.00	80,0	187.41	
3	09/11/2020	SEE	/AR/11/2020/0	0170	76.49	21.30	<3	3,00	<9.00	0.05	183.62	
4	12/11/2020	SEE	/AR/11/2020/0	0250	43.49	16.05	<:	3.00	<9.00	0.05	165.25	
	NAA	QS Li	mits*		100	60	{	30	80.	4.	-	
		Units	S		μg/ m ³	μg/m³	μg	/m³	μg/m³	mg/m³	μg/m³	
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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Analysed by Dipali Sawant

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Authorized Signatory Varsha Pole

HEAD OFF: & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

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E-mail ; sadekarenviro@rediffmail.com 

Website ; www.sadekarenviro.com 

CIN No. U45209MH1998PTC-116379

### Respirable Dust Sampler's with Gaseous Sampling

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

### UV Spectrophotometer

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

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

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

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



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	A - 4	AMBIEN	IT A	IR QUALI	TY MONITOR	INC	RE	PORT		
Rej	Report Date 18/11/2020									
Name of Client  M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited										
Λdα	lress of Client	Мора, Goa							de del declaración conservinción per projeto per a conservacionales.	
San	aple Collected	By SEEPL Repre	sentat	ive						arabata da araba da a
Mo:	nth of Samplin	g November 20	20				***********	***************************************		
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Loc	ation of ambie	nt air station	Patr	adevi (Goa S	tate)	***********			The Arterior and Maries Maries Maries (Maries Maries (Maries Maries (Maries Maries (Maries (Maries Maries (Maries (Mar	OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT
Ανε	rage Ambient	Temperature (ºC)	31.0	Average	Average Humidity (%) 79 Latitude N 15º47'			N 15º47'4	5.3"	
Ave	rage Wind Spe	ed (km/hr)	1.0	Average Wind direction(Deg) 285 Longitude E 73°51'44.6"					4.6"	
Inst	ruments Used		FPS(	PS(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	. 8	6O ₂	NO _X	co	SPM
1	03/11/2020	SEE/AR/11/2020/	0045	50.52	15.55	9	.10	13.08	0.08	168.25
2	06/11/2020	SEE/AR/11/2020/	0130	49.99	21.80	<.	3.00	<9.00	0,07	164.96
3	09/11/2020	SEE/AR/11/2020/	0174	45.48	18.06	<3	3.00	11.74	0.06	161.47
4	12/11/2020	SEE/AR/11/2020/	E/AR/11/2020/0254		40.42	<3	3.00	<9.00	0.05	188.82
NAAQS Limits*				100	60	-{	30	80	4	-
		Units -		μġ/ m³	μg/m³	μg	/m³	μg/m³	mg/m³	μg/m³
	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)

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.

Analysed by Dipali Sawant

Junopale Yay Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

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

E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * СIN No. U45209МН1998РТС-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-		29/07/2020	29/07/2021
	2016)	21/FLOW/583		

### 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	ECL/SEEPL/2019-20/FLOW/5141	21/02/2020	21/02/2021

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



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		AMBIEI	NT A	IR QUALI	TY MONITOR	ING F	\EF	ORT		
Rej	ort Date	18/11/2020	****	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		**************************************		*** *** ** *** **** ***** ***** **** ****		
Nai	ne of Client	M/s. Megawi	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	lress of Client	Mopa, Goa							• • • • • • • • • • • • • • • • • • • •	
San	nple Collected	By SEEPL Repre	sentat	ive	A WESTERN ACCOUNTS AND A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF					hk finit f - k - di
Мо	nth. of Samplir	ng November 20	)20	**************************************					***************************************	
MADELLINE .		2		AMBIENT	AIR LOCATION	1				<del>'</del>
Loc	ation of ambie	nt air station	Perr	rem (Tuem)	(Goa State)					
Ave	rage Ambient	Temperature (°C)	31.2	***************************************				N 15º41'2	4.97"	
Ave	erage Wind Spe	ed (km/hr)	1.7	Average Wind direction(Deg) 296 Longitude E 73°47'40.				0.70"		
Inst	ruments Used		FPS	S(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂		NOX	со	SPM
1	03/11/2020	SEE/AR/11/2020/	0042	47.97	15.30	7.14		11.98	0.07	170.26
2	06/11/2020	SEE/AR/11/2020/	0127	88.95	20.13	8.91		<9.00	0.06	194.65
3	09/11/2020	SEE/AR/11/2020/	0171	56.02	26.00	4.59		<9.00	80.0	187.32
4.	12/11/2020	SEE/AR/11/2020/	0251	34,00	18.62	<3.00	)	<9.00	0.09	162,47
	NAA	QS Limits*		100	60	80		80	4	
		Units		μg/ m³	μg/m³	μg/m	3	μg/m³	mg/m³	μg/m³
	Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 518 (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

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

Dipali Sawant

Vchopdekax Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India. 

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

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • CIN No. U45209MH1598PTC-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.2028-DTD-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
	2016)	21/FLOW/584		

### 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.		Calibration due date	
01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021	

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



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Lab. accredited by N6BL, Valid up to 29.06.2021 & Certified by ISO 9001:2015 & ISO 45001 : 2018

NOISE LEVEL MONITORING REPORT									
Report No.	SEE/AR/11/2020/0288-0289,0379-0380,0398- 0399,0481,0519,0523-0524,0537-0538	Report Date	30/11/2020						
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited								
Address of Client	Mopa, Goa		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						
Sample Collected By SEEPL Representative									

Sr.	Date of	Report No.	Sampling Location	Day Time			Night Time		
No.	Monitoring	Trojeore iro.		Lmin	Lmax	Leq	Lmin	Lmax	Leq
1,	16/11/2020	SEE/AR/11/2020/0288	Shemecheadvan (G-N2)	31.4	63.5	48.4	38.8	64.2	46.5
2.	16/11/2020	SEE/AR/11/2020/0289	Mopa (G-N1)	30.1	82.0	64.2	30.5	81.4	67.5
3,	19/11/2020	SEE/AR/11/2020/0379	Chandel-Pernem (G-N5)	33.3	65,4	50.7	32.0	54.6	35.7
4.	19/11/2020	SEE/AR/11/2020/0380	Warkhande-Pernem (G- N7)	30.1	69.6	51,5	30.0	66.3	43.7
5.	20/11/2020	SEE/AR/11/2020/0398	Purva Casarvarnem (G-N4)	30,8	53.0	41.7	31.2	55.0	35.7
6.	20/11/2020	SEE/AR/11/2020/0399	Nagzor (G-N3)	30.1	75.4	53.0	30.1	53.7	42.2
7.	25/11/2020	SEE/AR/11/2020/0481	Satarda (M-N1)	30.1	59.8	45.5	30.3	39,8	37.2
8.	27/11/2020	SEE/AR/11/2020/0519	Dingna (M-N2)	30.3	73,9	48.1	30.2	57.7	39.1
9,	28/11/2020	SEE/AR/11/2020/0523	Khajane Ambere, Porsakade V.P (G-N6)	30.4	69.4	52.5	30.0	65.6	42.5
10:	28/11/2020	SEE/AR/11/2020/0524	Rajvelwada, Torxem- Pernem (G-N8)	30.2	63.4	47.4	30.1	57.1	42,1
11.	29/11/2020	SEE/AR/11/2020/0537	V.P. Mopa, Tamboxem & Ugvem (G-N9)	31.5	78.6	52.5	31.1	49.6	39.6
12.	29/11/2020	SEE/AR/11/2020/0538	Netarde (M-N3)	30.1	69.7	53.5	30.0	49.1	39,2

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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Monitored by Sanjivan Gawas

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604: Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekarS@gmail.com

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

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • CIN No. U45209MH1998PTC-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/199	1.7/07/2020	16/07/2021

### Noise Level Meter No.2 (A0114-1408)

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



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Lab. accredited by 14811. Velid: up to 29.06.2021 * Certified by ISO 9001:2015 & ISO 45901:2018

WORKPLACE NOISE LEVEL MONITORING REPORT								
Report No. SEE/AR/11/2020/0560-0564 Report Date 01/12/2020								
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Address of Client	Mopa, Goa							
Date of Sampling	30/11/2020		умируун ултаан тайшин төрөө үч торчийн төрөө үч төрөөгөө байгаасын төгөө байгаасын төгөө төгөөгөө төрөөгөөгөөг					
Sample Collected By SEEPL Representative								

Sr. No.	Report No.	Sampling Location	Noise in dB (A)
JI, IVU,	Report No.	(From 1.0 meter off)	Day Time
01.	SEE/AR/11/2020/0560	Zone D CH: 3730	70.3
02.	SEE/AR/11/2020/0561	Zone D CH: 400	79.2
03.	SEE/AR/11/2020/0562	Zone B (Grid L8)	79.0
04.	SEE/AR/11/2020/0563	Near Barazan (Grid L7)	73.6
05.	SEE/AR/11/2020/0564	At Apron Area	81.0

- Occupational Exposure Limit for noise as per OSHA is 85dB (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) 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: 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.

Monitored by Sanjivan Gawas

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604. Maharashitra State, India. ① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 * E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

BRANCH OFF.

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

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

### Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393 )

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date	
01	Noise Level Meter	LES-CCL/MECH/SLM/199	17/07/2020	16/07/2021	1



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

Cab. according by MARL, Valid up to 26.00 2021. A Cordina by 1901-2015 & 190-48001. 2015.

SHIVE UNITER SAVE USE

	ANALYSIS REPO	RT FOR V	WATER SAMPLE					
Report No.	SEE/11/2020/311	SEE/11/2020/311 Report Date			02/12/2020			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client Mopa, Goa								
Order / Dafassana	An nor dated 00/44/0000	Enviro	nmental Condition of Lab	Temp ⁰ C		Humidity %		
Order / Reference	As per dated 26/11/2020	11/2020 Environmental Condition of Lab		27.8		69		
Sampling point	R R Canteen							
Sample details	Drinking Water		Date of collection	***************************************	26/11/	/2020		
Sample Collected by	SEEPL Representative		Sample Received On		26/11/2020			
Analysis Started On	26/11/2020		Analysis Completed On		02/12/2020			
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 r	ml + 4000ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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

### **Equipment Calibration Details**

Ć.,		In	· .	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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Lab. accordated by MASE, Valid on to 29.00.2021. A Control by 19.0 5651-2616. A 19.0 45001-12058.

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	ANALYSIS REPO	RT FO	R WATER SAMPLE				
Report No.	SEE/11/2020/312	SEE/11/2020/312 Report Date				2020	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client Mopa, Goa							
Order / Deference	An more debade 00/144/2000	As per dated 26/11/2020 Environmental Condition of Lab		Temp ⁰ C		Humidity %	
Order / Reference	As per dated 20/11/2020			27.8		69	
Sampling point	VNC Colony						
Sample details	Drinking Water		Date of collection	***************************************	26/11/	2020	
Sample Collected by	SEEPL Representative		Sample Received On		26/11/2020		
Analysis Started On	26/11/2020	26/11/2020			02/12/2020		
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can Sample Quantity 1000 ml + 4000ml					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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② : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ◆ E-mail : prs@sadekarenviro.com / psadekar5@gmail.com Page 1 of 1

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

### **Equipment Calibration Details**

(C)-	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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L2b, accounted by ####, Valid up to 29.96.2021. A Continuity ISO 9661 2015 & ISO 46Hiti. 2018.

SAVE ULATER SMALLIA

	ANALYSIS REPO	RT FO	R WATER SAMPLE				
Report No.	SEE/11/2020/313	Report Date		02/12/	02/12/2020		
Name of Client  M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa						
	4 14 1 004480000	Environmental Condition of Lab		Temp ⁰ C		Humidity %	
Order / Reference	As per dated 26/11/2020 Envi		Anothine ital Condition of Ear		7.8	69	
Sampling point	ATC Tank						
Sample details	Drinking Water	Drinking Water			26/11/2020		
Sample Collected by	SEEPL Representative		Sample Received On		26/11/2020		
Analysis Started On	26/11/2020		Analysis Completed On		02/12/2020		
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml		

Microbiological Parameters

Sr. No.	Parameter	Parameter Result Unit		IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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

### **Equipment Calibration Details**

Sr.	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
No.				Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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Lab, according by BRBL, valid up to 29.06.2921 A Certified by 150 5001-2015 5-150-45001-2018

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	ANALYSIS REPO	RT FO	R WATER SAMPLE					
Report No.	SEE/11/2020/314	Report Date		02/12/2020				
Name of Client	nt M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client Mopa, Goa								
O-1/D-f	As per dated 26/11/2020 Envir		Environmental Condition of Lab		р⁰С	Humidity %		
Order / Reference			nonnema conductor cas	27.8		69		
Sampling point	LSC Labour Colony							
Sample details	Drinking Water	Drinking Water [			26/11/2020			
Sample Collected by	SEEPL Representative		Sample Received On	26/11/2020		2020		
Analysis Started On	26/11/2020		Analysis Completed On		02/12/2020			
Sample Container	er Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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# **Equipment Calibration Details**

40	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
Sr. No.				Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
. 03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPOR	RT FO	R WATER SAMPLE				
Report No.	SEE/11/2020/315 Report Date				02/12/2020		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa	n DMC Il Airpo	CC ort Limited				
Address of Client	Mopa, Goa						
	As per dated 26/11/2020		Environmental Condition of Lab		p °C	Humidity %	
Order / Reference					7.8	69	
Sampling point	Nagzor						
Sample details	Ground Water		Date of collection	26/11/2020		2020	
Sample Collected by	SEEPL Representative	SEEPL Representative		<u> </u>	26/11/2020		
Analysis Started On	26/11/2020		Analysis Completed On		02/12/	/2020	
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml		

**Chemical Parameters** 

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	6.76	-	6.5 - 8.5	APHA(23rdEdition) 4500 H+-B
2.	Turbidity	<1.00	NTU	1.00	APHA(23™Edition) 2130 B
3.	Taste	Agreeable		Agreeable	APHA( 23rdEdition ) 2160 B
4,	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5,	Ödour	Agreeable	-	Agreeable	APHA( 23d Edition ) 2150 B
6.	Total Alkalinity	42.00	mg/lit	200.00	APHA( 23rdEdition ) 2320 B
7.	Total Dissolved Solids	156.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as Cl	20.02	mg/lit	250.00	APHA( 23d Edition ) 4500 CF B
9.	Sulphate as SO ₄ -	1.50	mg/lit	200.00	APHA( 23™Edition ) 4500 SO₄E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23 rd Edition ) 4500 S ² F
11.	Total Hardness as CaCO₃	38.00	mg/lit	200.00	APHA( 23™Edition ) 2340 C
12.	Ammonia	<0.50	nng/lit	्र _{सङ्क} , <b>0.</b> 50	APHA( 23rdEdition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39): 1991

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Report No.	SEE/11/2020/315	Report Date	02/12/2020				
Order / Reference	As per dated 26/11/2020	Sample Received On	26/11/2020				
Analysis Started On	26/11/2020	Analysis Completed On	02/12/2020				
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Che	mica	11	าล	۲	am	eters

Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
Residual free chlorine	Nil	mg/lit	<b>0</b> .50	APHA( 23 rd Edition ) 4500 CI- C
Nitrate as NO₃	2.39	mg/lit	45.00	APHA(23™Edition) 4500 NO ₃ B
Fluoride as F	<0.10	mg/lit	1,00	APHA(23 rd Edition) 4500 F D
Phenolic compound	<0.001	mg/lit	0.001	APHA(23ªEdition) 5530-B,C
Cyanide	<0.01	mg/lit	0.05	APHA(23rdEdition) 4500 CN D
Anionic Detergents	<0.10	mg/lit	0.20	APHA(23 rd Edition) 5540 - C
	Residual free chlorine  Nitrate as NO ₃ Fluoride as F-  Phenolic compound  Cyanide	Residual free chlorine Nil  Nitrate as NO ₃ 2.39  Fluoride as F < <0.10  Phenolic compound <0.001  Cyanide < 0.01	Residual free chlorine  Nil mg/lit  Nitrate as NO ₃ 2.39  Fluoride as F-  Vo.10  Phenolic compound  Cyanide  Nil mg/lit  mg/lit  compound  Cyanide  Nil mg/lit  compound  co.010  compound  co.001  co.0	Parameter         Result         Unit         Limit (As per IS 10500)           Residual free chlorine         Nil         mg/lit         0.50           Nitrate as NO3         2.39         mg/lit         45.00           Fluoride as F-         <0.10

Metal	Analysis			Y	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA(23™Edition) 3120 B
21.	Arsenic as As	<0,01	mg/lit	0.01	APHA(23rdEdition) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA(23 rd Edition) 3120 B
23.	Calcium as Ca	8.81	mg/lit	75.00	APHA( 23 rd Edition ) 3500Ca B
24,	Cadmium as Cd	<0.001	mg/lit	0.003	APHA(23 rd Edition) 3120 B
25.	Iron as Fe	0,06	mg/lit	1.00	APHA(23 rd Edition) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
27.	Magnesium as Mg	3.90	mg/lit	30.00	APHA( 23rd Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA(23rdEdition) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA( 23rdEdition ) 3120 B
31,	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 3120 B
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Report No.	SEE/11/2020/315	Report Date	02/12/2020				
Order / Reference	As per dated 26/11/2020	Sample Received On	26/11/2020				
Analysis Started On	26/11/2020	Analysis Completed On	02/12/2020				
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNindex/100ml	Absent	APHA( 23™Edition ) 9221-G

Note: Test results related only to the sample tested.

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## **Equipment Calibration Details**

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



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SOVÉ WHICK SARTIK

	ANALYSIS REPO	RT FO	R WATER SAMPLE			
Report No.	SEE/11/2020/316 Report Date 02/12/2					2020
Name of Client	M/s. Megawide Construction C/o GMR Goa International				1	
Address of Client	Mopa, Goa					
O.J/D-f	A	6 11.1 00/44/0000 Em		Temp ^o C		Humidity %
Order / Reference As per dated 26/11/2020 En		£11 <i>8</i>	Environmental Condition of Lab		7.8	69
Sampling point	PTB Tank					
Sample details	Drinking Water		Date of collection		26/11/2020	
Sample Collected by	SEEPL Representative	SEEPL Representative			26/11/	2020
Analysis Started On	26/11/2020	26/11/2020			02/12/2020	
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 mi + 4000ml	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2,	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23rdEdition) 9221-G

Note: Test results related only to the sample tested.

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## **Equipment Calibration Details**

C-				Calibration Details		
Sr. No.	Equipment Name	quipment Name Equipment Certificate No.	Calibration Date	Next Calibration Due Date		
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPOR	RT FOR \	WATER SAMPLE			
Report No.	SEE/11/2020/317	SEE/11/2020/317			02/12/2020	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa					
	A 0.0044/00.00	Enviro	Environmental Condition of Lab		рºС	Humidity %
Order / Reference	As per dated 26/11/2020	CHVIO			7.8	69
Sampling point	Borewell 2					
Sample details	Ground Water		Date of collection		26/11/2020	
Sample Collected by	SEEPL Representative		Sample Received On		26/11/2020	
Analysis Started On	26/11/2020		Analysis Completed On		02/12/2020	
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml	

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pН	<b>7</b> .01	.**	6.5 - 8.5	APHA(23mEdition) 4500 H+-B
2.	Turbidity	<1.00	NTU	1.00	APHA(23 rd Edition) 2130B
3.	Taste	Agreeable	-	Agreeable	APHA( 23 rd Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00°	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	-	Agreeable	APHA( 23™Edition ) 2150 B
6.	Total Alkalinity	38,00	mg/lit	200.00	APHA( 23 rd Edition ) 2320 B
7.	Total Dissolved Solids	179.00	mg/lit	500.00	APHA( 23 rd Edition ) 2540 C
8.	Chlorides as Cl	19.02	mg/lit	250.00	APHA( 23 rd Edition ) 4500 CFB
9.	Sulphate as SO ₄ -	3.25	mg/lit	200.00	APHA( 23rdEdition ) 4500 SO ₄ E
10,	Sulfides	<0.05	mg/lit	0.05	APHA( 23dedition ) 4500 S2F
11,	Total Hardness as CaCO₃	54.00	mg/lit	200.00	APHA(23dEdition) 2340 C
12.	Ammonia	<0.50	mg/lit	0,50	APHA( 23rdEdition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39): 1991

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Varsha Pole **Authorized Signatory** 

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

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

Report No.	SEE/11/2020/317	Report Date	02/12/2020		
Order / Reference	As per dated 26/11/2020	Sample Received On	26/11/2020		
Analysis Started On	26/11/2020	Analysis Completed On	02/12/2020		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23mEdition ) 4500 CI- C
15.	Nitrate as NO ₃	<1,00	mg/lit	45.00	APHA(23 rd Edition) 4500 NO₃ B
16.	Fluoride as F-	<0.10	mg/lit	1.00	APHA(23dedition) 4500 FD
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23 rd Edition) 5540 - C
letal	Analysis				
20	Alimatulium no Al	-0.01	ma/lit	0.03	ADHA/ 23dEdition 1 3120 B

1	1	I	1	
Analysis				
Aluminium as Al	<0.01	mg/lit	0.03	APHA(23™Edition) 3120 B
Arsenic as As	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
Boron as B	<0.01	mg/lit	0.50	APHA( 23 rd Edition ) 3120 B
Calcium as Ca	19.23	mg/lit	75.00	APHA(23 rd Edition) 3500CaB
Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23 rd Edition ) 3120 B
Iron as Fe	0.06	mg/lit	1,00	APHA( 23 rd Edition ) 3120 B
Lead as Pb	<0.01	mg/lit	0.01	APHA(23 rd Edition) 3120 B
Magnesium as Mg	1.45	mg/lit	30.00	APHA( 23 [™] Edition ) 3500Mg B
Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
Mercury as Hg	<0.001	mg/lit	0.001	APHA(23 rd Edition) 3120 B
Zinc as Zn	<0.01	mg/lit	5,00	APHA( 23rdEdition ) 3120 B
Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
Copper as Cu	<0.01	mg/lit	0.05	APHA( 23rdEdition ) 3120 B
	Aluminium as Al Arsenic as As Boron as B Calcium as Ca Cadmium as Cd Iron as Fe Lead as Pb Magnesium as Mg Chromium as Cr Mercury as Hg Zinc as Zn Sodium as Na Potassium as K	Aluminium as Al       <0.01	Aluminium as Al         <0.01	Aluminium as Al         <0.01

Uchita Dongare Analyzed by Vahopdekay Varsha Pole Authorized Signatory

Report No.	SEE/11/2020/317	Report Date	02/12/2020		
Order / Reference	As per dated 26/11/2020	Sample Received On	26/11/2020		
Analysis Started On	26/11/2020	Analysis Completed On	02/12/2020		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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## **Equipment Calibration Details**

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



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SOVE WATER SHVC U.G.

	ANALYSIS REPO	RT FO	R WATER SAMPLE				
Report No.	SEE/11/2020/318	SEE/11/2020/318		Report Date		/2020	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa						
Address of Client	Mopa, Goa						
4 F 60m 41	A DOMANOON Envir		vironmental Condition of Lab	Temp OC		Humidity %	
Order / Reference	As per dated 26/11/2020	i" lik	Phase characters on a rem		7.8	69	
Sampling point	Borewell 1						
Sample details	Ground Water		Date of collection	***************************************	26/11/2020		
Sample Collected by	SEEPL Representative	SEEPL Representative			26/11/2020		
Analysis Started On	26/11/2020	26/11/2020			02/12/2020		
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml	

#### **Chemical Parameters**

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	6.89		6.5 - 8.5	APHA( 23rdEdition) 4500 H+B
2.	Turbidity	<1.00	NTU	1.00	APHA( 23™Edition ) 2130 B
3,	Taste	Agreeable	•	Agreeable	APHA( 23 ^{rg} Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23™Edition ) 2120 B
5.	Odour	Agreeable	-	Agreeable	APHA( 23mEdition ) 2150 B
6.	Total Alkalinity	58.00	mg/lit	200.00	APHA( 23redition ) 2320 B
7.	Total Dissolved Solids	184.00	mg/lit	500.00	APHA( 23 rd Edition ) 2540 C
8.	Chlorides as Cl	22.02	mg/lit	250.00	APHA( 23redition ) 4500 CFB
9.	Sulphate as SO ₄ -	5.22	mg/lit	200.00	APHA( 23rdEdition ) 4500 SO4E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO₃	64.00	mg/lit	200.00	APHA(23rdEdition) 2340 C
12.	Ammonia	<0.50	mg/lit	0,50	APHA( 23rd Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39): 1991

UD___ Uchita Dongare Analyzed by

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E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * CIN No. U46209MH1998PTC-116379

Report No.	SEE/11/2020/318	Report Date	02/12/2020		
Order / Reference	Reference As per dated 26/11/2020		26/11/2020		
Analysis Started On	26/11/2020	Analysis Completed On	02/12/2020		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Chem	rai	Param	eters

Sr. No.	nical Parameters Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23™Edition ) 4500 CI- C
15.	Nitrate as NO ₃	1.27	mg/lit	45.00°	APHA(23™Edition) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA(23 rd Edition) 4500 FD
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23 rd Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23rd Edition ) 4500 CN D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23™Edition) 5540 – C
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA(23 [™] Edition) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA(23™Edition) 3120 B
22,	Boron as B	<0.01	mg/lit	0.50	APHA(23™Edition) 3120 B
23.	Calcium as Ca	15.23	mg/lit	75.00	APHA(23 rd Edition) 3500CaB
24.	Cadmium as Cd	<0.001	nıg/lit	0.003	APHA( 23 rd Edition ) 3120 B
25.	Iron as Fe	0.06	mg/lit	1.00	APHA( 23™Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	6.33	mg/lit	30.00	APHA( 23 ^m Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0,001	APHA( 23rdEdition ) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5,00	APHA( 23 rd Edition ): 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32,	Potassium as K	<1.00	nng/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0,05	APHA( 23 rd Edition ) 3120 B

Uchita Dongare Analyzed by N<u>chopdekar</u> Varsha Pole Authorized Signatory

Report No.	SEE/11/2020/318	Report Date	02/12/2020
Order / Reference	As per dated 26/11/2020	Sample Received On	26/11/2020
Analysis Started On 26/11/2020		Analysis Completed On	02/12/2020
Name of Client	M/s. Megawide Construction Di C/o GMR Goa International Air		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS destrable Limit (As per IS 10500)	Method
34,	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 ^{ee} Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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## **Equipment Calibration Details**

Sr.			***************************************	Calibratio	on Details
No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	
04.	ICP- OES	Q/162	-	Inhouse C	Calibration
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
<b>0</b> 6,	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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	ANALYSIS REPO	ORT FOR I	WATER SAMPLE				
Report No.	ort No. SEE/11/2020/309			30/11/20	20		
Name of Client	e of Client  M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	A 1 00/44/0000	Couiro	Environmental Condition of Lab		Humidity %		
	As per dated 26/11/2020 En		CHAROLILICITION COLLUSION OF TOD		68		
Sampling point	STP						
Sample details	Inlet Water		Date of collection	26/11/20	26/11/2020		
Sample Collected by	SEEPL Representative		Sample Received On	26/11/20	26/11/2020		
Analysis Started On	26/11/2020		Analysis Completed On	30/11/20	30/11/2020		
Sample Container	Glass Bottle + PVC Can	***************************************	Sample Quantity	1000 ml	1000 ml + 1000ml		

#### **Chemical Parameters**

Sr. No.	Parameters	Results	Unit	Method
1.	На	6.46	-	APHA(23rdEdition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	360,00	mg/lit	APHA( 23™Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	90.80	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	64,00	mg/lit	APHA( 23 rd Edition ) 2540-D
5.	Oil & Grease (O & G)	35.40	mg/lit	APHA( 23 rd Edition ) 5520-O &G
6.	Ammonia	20.72	mg/lit	APHA( 23 rd Edition ) 4500 NH₃B C
7.	Phosphate as PO ₄	27.54	mg/lit	APHA( 23™Edition ) 450 P C

Note: Test results related only to the sample tested.

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

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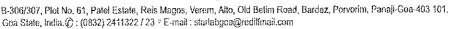
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## **Equipment Calibration Details**

				Calibrat	ion Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubater	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
05.	U V Spectrophotometer	Q/0166		Inhouse Calibration	





Lab. accredible by NATIL, Valid up to 25.05.2021 % Continuity ISO \$101.2015 & ISO 45991-2016

SAVE WATER SAVE UK

ANALYSIS REPORT FOR WATER SAMPLE									
Report No.	SEE/11/2020/310		Report Date	30/11/20	20				
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited								
Address of Client Mopa, Goa									
6 ) (6 )	A	- Faviro	nmental Condition of Lab	Temp ⁰ C	Humidity %				
Order / Reference	As per dated 26/11/2020 Environ		nmental Condition of Lab	27.8	69				
Sampling point	STP	Province of the second second	and to be device a since of transaction and an in the since of models (A). During the profession common com	\$4 A Marine & Conservation (Conservation & Conservation & Conserva	the office of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th				
Sample details	Outlet water		Date of collection	26/11/20	20				
Sample Collected by	SEEPL Representative	, , , , , , , , , , , , , , , , , , ,	Sample Received On	26/11/20	26/11/2020				
Analysis Started On	26/11/2020		Analysis Completed On	30/11/20	30/11/2020				
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 mi	+ 1000ml				

#### Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pН	7,10	-	5.5 – 9.0	APHA( 23™Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	120.00	mg/lit	25 <u></u> 0,00	APHA( 23rdEdition ) 5220-B
3.	Blochemical Oxygen Demand (27°C 3 day)(BOD)	19.63	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	36.00	mg/lit	100.00	APHA( 23rdEdition ) 2540-D
5.	Oil & Grease (O & G)	8.20	mg/lit	10.00	APHA( 23rdEdition ) 5520-O &G
6,	Ammonia	7.28	mg/lit	50.00	APHA( 23 rd Edition ) 4500 NH ₃ B C
7.	Phosphate as PO ₄	4.33	mg/lit	5,00	APHA( 23rdEdition ) 450 P C

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

Note: Test results related only to the sample tested.

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Charles Komal-Gawas Analyzed by

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② : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 ● E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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## **Equipment Calibration Details**

			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Calibrat	ion Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/039	T2020/06/041	27/06/2020	27/06/2021
05.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	



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			AMBIEN	TAI	R QUALIT	Y MONITORI	NG REP	ORT		
Report Date 03/11/2020										
Name of Client  M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited										
Add	ress of Client		Mopa, Goa				***************************************			
Sam	ple Collected I	Зу	SEEPL Repre	senta	tive					
Mor	ith of Samplin	g	October 202	0						
					AMBIENT A	AIR LOCATION				
Loca	ation of ambie	nt air s	tation	Shen	necheadvan					
Ave	rage Ambient	Tempe	rature (ºC)	31.5	Average I	lumidity (%)	75	Latitude	N 15º44'06.1"	
Ave	rage Wind Spe	ed (kn	1/hr)	1.0	Average V	Vind direction(Deg	g) 311	Longitude	E 73º51'31.5"	
Inst	ruments Used			FPS(	PM-550), RDS(APM-460)&GPS(APM – 411)					
Sr.	Date of		Downerd Ma		PARAMETERS					
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	$SO_2$	NOx	co	
1.	01/10/2020	SEE/	AR/10/2020/0	0036	25.63	15.47	<3.00	<9.00	0,07	
2	05/10/2020	SEE/	AR/10/2020/0	052	24.87	13.26	<3.00	<9.00	0.06	
3	08/10/2020	SEE/	AR/10/2020/0	106	31.25	18.96	<3.00	<9.00	0.04	
4	12/10/2020	SEE/	ÁR/10/2020/	156	28.64	16.55	<3.00	<9.00	0.06	
5	15/10/2020	SEE/	AR/10/2020/0	)243	25.11	12.49	<3.00	<9.00	0.06	
6	19/10/2020	SEE/	AR/10/2020/0	)337	38.28	18.52	<3.00	<9.00	0.05	
7	23/10/2020	SEE/	AR/10/2020/	0390	19.33	24.33	<3.00	<9.00	0.07	
8	27/10/2020	SEE/	/AR/10/2020/0455		13.48	45.66	<3.00	<9.00	0.06	
9	30/10/2020	SEE/	AR/10/2020/	0505	27.63	18.14	<3.00	<9.00	0.04	
	NAA	QS Lim	nits*		100	60	80	80	4	
		Units	***************************************		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Pa 02)	rt IS 5182 (Part 06)	IS 5182( Part 10)			

#### *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.

Analysed by
Dipali Sawant

Juno Pale Kox Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.O.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

BRANCH OFF. . : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ① : (0832) 2437048 / 2437164

E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * CIN No. U45209MH1998PTC-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.1904-DTJ-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
	2014)	21/FLOW/548		

## UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

1					
	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/589	29/07/2020	29/07/2021

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



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

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SAVE WATCH SAVE UPE

		AMBIE	NT AI	R QUALIT	Y MONITORII	NG REPC	RT		
Repo	ort Date	03/11/20	20					***************************************	
Name of Client  M/s. Megawide C C/o GMR Goa inte									
Add	ress of Client	Mopa, Goa							
Sam	ple Collected E	y SEEPL Rej	resenta	tive					
Mon	th of Sampling	g October 2	020				4-20-		
			***************************************	AMBIENT A	AIR LOCATION			Marray (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906)	
Loca	ition of ambier	it air station	Мора	ā				***************************************	
Aver	rage Ambient T	`emperature (°C)	29.6	Average	Humidity (%)	92	Latitude	N 15º44'50.3"	
Aver	age Wind Spe	ed (km/hr)	1.2	Average	Wind direction(De	g) 332	Longitude	E 73º51'37.8"	
Instruments Used FPS(			APM-550), RDS(APM-460)&GPS(APM – 411)						
Sr.	Date of	5		PARAMETERS					
No	Sampling	Report No	) <b>.</b>	PM ₁₀	PM _{2,5}	SO₂	NOx	co	
1	01/10/2020	SEE/AR/10/202	0/0037	25.89	12.63	<3.00	<9.00	0.06	
2	05/10/2020	SEE/AR/10/202	0/0053	24.31	14.77	<3.00	<9.00	0.05	
3	08/10/2020	SEE/AR/10/202	0/0107	27.85	15.32	<3.00	<9.00	0.03	
4	12/10/2020	SEE/AR/10/202	0/0157	29,11	13.65	<3.00	<9.00	0.04	
5	15/10/2020	SEE/AR/10/202	0/0244	23.10	12.08	<3.00	<9.00	0.04	
6	19/10/2020	SEE/AR/10/202	0/0338	24.39	13.26	<3.00	<9.00	0.07	
7	23/10/2020	SEE/AR/10/202	0/0391	27.56	16.22	<3.00	<9.00	0.06	
8	27/10/2020	SEE/AR/10/202	0/0456	20.47	12.34	<3.00	<9.00	0.07	
9	30/10/2020	SEE/AR/10/202	0/0506	26.59	13.74	<3.00	<9.00	0.05	
	NAA	QS Limits*		100	60	80	80	4	
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	
Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Par 02)	IS 5182 (Part 06)	IS 5182( Part 10)			

*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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: Jest methods of analyzed parameters are back side of analysis report.

Analysed by Dipali Sawant Authorized Signatory

Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.J.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

E-mail: sadekarenviro@rediffmail.com * Website: www.sadekarenviro.com * съ но. и45209Мн1998РТС-116379

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	No. Equipment Name Certificate No.		Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1461-DTD-2009)	ECL/SEEPL/2020-	24/07/2020	24/07/2021
		21/FLOW/539		

## **UV** Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

### Fine Particulate Sampler (SR NO. 291-DTJ-2014)

Sr No. Equipment Name		Certificate No.	Calibrated on	Calibration due date	
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5122	20/02/2020	20/02/2021	

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



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		AMBIEN	IT All	R QUALITY	MONITORIN	G REPOR	RT	
Report Date 03/11/2020								
		wide Construction DMCC Goa international Airport Limited						
Add	ress of Client	Mopa, Goa						
Sam	ple Collected I	By SEEPL Repre	sentat	ive				
Mor	ith of Samplin	g October 202	0					
				AMBIENT A	IR LOCATION			_
Loc	ation of ambier	nt air station	Patra	devi				
Ave	rage Ambient'	remperature (°C)	31.2	Average	Humidity (%)	80	Latitude	N 15º47'45.3'
Average Wind Speed (km/hr)		1.2	Average	Wind direction(De	eg) 268	Longitude	E 73º51'44.6"	
Instruments Used FPS			FPS(APM-550), RDS(APM-460)&GPS(APM - 411)					
Sr.	Date of	D4 N-		PARAMETERS				
No	Sampling	Report No.		PM ₁₀	PM _{2,5}	SO₂	NOX	CO
1	01/10/2020	SEE/AR/10/2020/	0024	25.17	13.12	<3.00	<9.00	0.05
2	05/10/2020	SEE/AR/10/2020/	0085	19.99	15,32	<3,00	<9.00	0.04
3	08/10/2020	SEE/AR/10/2020/	0131	36.94	18.36	<3.00	<9.00	0.03
4	12/10/2020	SEE/AR/10/2020/	0189	20.76	11.27	<3.00	<9.00	0.05
5	15/10/2020	SEE/AR/10/2020,	0232	26.80	11.23	<3.00	<9.00	0.06
6	19/10/2020	SEE/AR/10/2020,	0336	30.83	15.22	<3.00	<9.00	0.06
7	23/10/2020	SEE/AR/10/2020,	/0389	27.96	13.87	<3.00	<9.00	0.04
8	27/10/2020	SEE/AR/10/2020,	0454	22.52	14.24	10.89	<9.00	80.0
9	30/10/2020	SEE/AR/10/2020,	/0504	32.04	18.65	14.38	<9.00	0.06
	NAA	QS Limits*		100	60	80	80	4
VIII.		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10

*NATIONAL AMBIENT AIR STANDARDS (2009)

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

Analyšed by Dipali Sawant

Vihopdekor Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagte Industrial Area, Thane - 400 604. Maharashtra State, India.

 $\textcircled{0}: (91-22)\ 2583\ 3321\ /\ 2583\ 3322\ /\ 2583\ 3323\ /\ 2583\ 3324 \bullet \texttt{E-mail}: \texttt{prs@sadekarenviro.com}\ /\ \texttt{psadekar5@gmail.com}$ 

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: 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (0832) 2437048 / 2437164 BRANCH OFF.

E-mail: sadekarenviro@rediffmail.com @ Website: www.sadekarenviro.com @ СIN No. U45209МН1998РТС-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-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
	2016)	21/FLOW/583		

### **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	ECL/SEEPL/2019-20/FLOW/5141	21/02/2020	21/02/2021

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



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		AMBIEN	IT All	R QUALIT	TY MONITORIN	NG REPO	RT			
Report Date 03/11/2020										
Nan	ne of Client	M/s. Megawi C/o GMR Goa	de Con interi	nstruction DI national Airp	MCC oort Limited			- The distribution of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of		
Add	ress of Client	Mopa, Goa								
Sam	ple Collected E	sy SEEPL Repre	sentat	ive		<u> </u>				
Mon	th of Samplin	g October 2020	)							
		·		AMBIENT	AIR LOCATION					
Loca	ation of ambier	ıt air station	Netai	rde						
Ave	rage Ambient'	remperature (°C)	29.8	Average	Humidity (%)	94	Latitudė	N 15º45'10.7"		
	rage Wind Spe		1.3	Average	Wind direction(De	g) 321	Longitude	E 73º53'47.0"		
	ruments Used		FPS(	S(APM-550), RDS(APM-460)&GPS(APM - 411)						
Sr.	Date of			PARAMETERS						
No	Sampling	Report No.	Ī	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO		
1	05/10/2020	SEE/AR/10/2020/	0084	24.97	17.75	<3.00	<9.00	0,05		
2	08/10/2020	SEE/AR/10/2020/	0130	22,36	10.65	<3.00	<9.00	0.04		
3	12/10/2020	SEE/AR/10/2020/	0188	17.09	13.62	<3.00	<9.00	0.05		
4	15/10/2020	SEE/AR/10/2020/	0231	33.54	24.83	<3.00	<9.00	0.06		
5	19/10/2020	SEE/AR/10/2020/	0335	25.17	17,36	<3.00	<9.00	0.04		
6	23/10/2020	SEE/AR/10/2020/	0388	27.49	14.39	<3.00	<9.00	0.05		
.7	27/10/2020	SEE/AR/10/2020/		22.30	18.36	11.50	<9.00	0.05		
8	30/10/2020	SEE/AR/10/2020/	0503	30.34	15.14	<3.00	<9.00	0.04		
NAAQS Limits* Units  Method				100	60	80	80	4		
				μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³		
				IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)		

*NATIONAL AMBIENT AIR STANDARDS (2009)

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Analysed by Dipali Sawant

Vohopade You Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

## Respirable Dust Sampler's with Gaseous Sampling

T				
5r No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 BL(SR NO.1897-DTJ-2014)	ECL/SEEPL/2020-	25/07/2020	25/07/2021
		21/FLOW/550		

## **UV Spectrophotometer**

T		
Sr No.	Equipment Name	Calibration
-i-ii-i-ii(qt-annorthinothii)	111	
0.1	UV	
I,		In House Calibration

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

	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
***************************************	01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5119	20/02/2020	20/02/2021

Γ"	~ A 1			
<u> </u> _	Sr No.	Instrument Type	Calibrated on	Calibration due date
- 1	01 (	CO Analyzer (SR No. 17-0135 Serinus 30)	21/07/2020	20/07/2021
Low				20/07/2021



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Lab. accredited by MABL, Valid up to 29.06.2021 ★ Certified by ISO 9001:2015 & ISO 45001:2018

			AMBIEN	IT AI	R QUALITY	MONITORIN	IG REPO	RT			
Rep	ort Date		03/11/2020								
Nan	ne of Client				struction DM national Airpo		· · · · · · · · · · · · · · · · · · ·				
Add	lress of Client		Mopa, Goa								
San	ple Collected I	Ву	SEEPL Repre	sentat	íve	enter de la complete de la complete de la complete de la complete de la complete de la complete de la complete					
Mor	ith of Samplin	g	October 2020	)			***************************************				
70000				*************************	AMBIENT A	IR LOCATION			<del></del>		
Loc	ation of ambie	nt air	station	Satar			<del> </del>	*			
	rage Ambient '	***************************************	·····	30.1	Average	Humidity (%)	87	La	titude	N15º45'01.3"	
Ave	rage Wind Spe	ed (kı	n/hr)	1.3	Average	Wind direction(De	eg) 325	Lo	ngitude	E 73º48'00.2"	
Inst	Instruments Used FPS				APM-550), RD:	S(APM-460)&GPS(A	APM - 411)	·····			
Sr.	Date of		Danaut Na		PARAMETERS						
No	Sampling		Report No.		PM ₁₀	PM _{2.5}	\$O ₂		$NO_X$	co	
1.	06/10/2020	SEE,	/AR/10/2020/	0091	23.13	17.49	<3.00		<9.00	0.06	
2.	09/10/2020	SEE,	/AR/10/2020/	0153	22.22	14.47	7.31	· ·	<9.00	0.04	
3	13/10/2020	SEE,	/AR/10/2020/	0208	17.38	16.97	<3.00		<9.00	0.06	
4	15/10/2020	SEE,	/AR/10/2020/	0273	21.63	15.77	<3.00		<9.00	0.05	
5	19/10/2020	SEE,	/AR/10/2020/	0330	22.90	21.37	3.21		<9.00	0.07	
6	23/10/2020	SEE,	/AR/10/2020/	0383	22.80	17.20	<3.00		<9.00	0.05	
7	27/10/2020	SEE,	/AR/10/2020/	0448	25.74	14.40	7.71		<9 <b>.0</b> 0	0.07	
8	30/10/2020	· · · · · · · · · · · · · · · · · · ·	/AR/10/2020/	0498	21.49	13.62	4.54		<9.00	0,06	
	NAA	QS Lir	nits*		100	60	80		80	4	
Units			μg/ m³	μg/m³	μg/m³		μg/m³	mg/m³			
		Metho	d		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Pa 02)	irt.	IS 5182 (Part 06)	IS 5182( Part 10)	

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

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Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

E-mail: sadekarenviro@rediffmail.com • Website: www.sadekarenviro.com • CN No. U45209MH1998PTC-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.1456-DTD-	ECL/SEEPL/2020-	25/07/2020	25/07/2021
	2009)	21/FLOW/547		

### **UV Spectrophotometer**

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

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

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

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



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

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				K QUALII	Y MONITORII	NG KEP	UKI		
Rep	ort Date	03/11/2020							
Nan	ne of Client	M/s. Megaw: C/o GMR Go:	ide Con a interi	nstruction DM national Airpe	ICC ort Limited				
Add	ress of Client	Mopa, Goa							
Sam	ple Collected I	By SEEPL Repre	esentat	ive					
Mor	ith of Samplin	g October 202	0						
				AMBIENT A	AIR LOCATION				
Loca	ation of ambie	nt air station	Dingi			······································			
		Temperature (°C)	30.2		lumidity (%)	91	Latitude	N 15º47'11.3"	
	rage Wind Spe	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.5		Wind direction(Deg	302	Longitude	E 73º53'11.6"	
	ruments Used		FPS(A	APM-550), RI	S(APM-460)&GPS	(APM - 41	l)		
Sr.	Date of			PARAMETERS					
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	\$O₂	NO _X	CO	
1	05/10/2020	SEE/AR/10/2020/	0083	21.34	10.65	<3.00	<9.00	0.06	
2	08/10/2020	SEE/AR/10/2020/	0129	30.95	10.27	<3.00	<9,00	0.04	
3	12/10/2020	SEE/AR/10/2020/	0187	31.07	24.83	<3.00	<9.00	0.05	
4	15/10/2020	SEE/AR/10/2020/	0230	29.26	10.27	<3.00	<9.00	0.04	
5	19/10/2020	SEE/AR/10/2020/	0334	34.90	15.22	<3.00	<9.00	0.06	
6	23/10/2020	SEE/AR/10/2020/	0387	37.50	13.58	<3.00	<9.00	0.05	
7 27/10/2020 SEE/AR/10/2020/0452 8 30/10/2020 SEE/AR/10/2020/0502			0452	30.25	14.66	<3.00	<9.00	0.06	
			0502	47.96	24.16	11.16	<9,00	0.07	
	NAA	QS Limits*		100	60	80	80	4	
Units				μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	
		Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Pa 02)	rt IS 5182 (Part 06)	IS 5182( Part 10)	

#### *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.

Analysed by Dipali Sawant

Authorized Signatory Varsha Pole

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Arca, Thane 400 604, Maharashtra State, India.

① : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

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

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

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

## 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-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2011)	20/FLOW/5137		

### **UV Spectrophotometer**

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

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

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



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Ren	ort Date	03/11/2020						
	ne of Client	M/s. Megawi	de Con intern	struction DMC ational Airpor	C t Limited			
Add	ress of Client	Mopa, Goa						
Sam	ple Collected I	By SEEPL Repre	sentati	ve				
Mor	ith of Samplin	g October 202	D					
				AMBIENT A	R LOCATION			
Loca	ation of ambie	nt air station	Nagzo			gu_, epoco		9,04,0
		Femperature (°C)	28.4	·····	Humidity (%)	80	Latitude	N 15º42'37.3"
	rage Wind Spe		1.5		Wind direction(De	g) 254	Longitude	E 73°51'14.22"
	ruments Used		FPS(A	APM-550), RDS	(APM-460)&GPS(A	APM - 411)		
Sr.	Date of			PARAMETERS				
No	Sampling	Report No.		PM ₁₀	PM _{2,5}	SO ₂	NOx	co
1	01/10/2020	SEE/AR/10/2020/	0025	22.09	18.36	3.67	<9.00	0.05
2.	06/10/2020	SEE/AR/10/2020/		27.42	15.80	<3.00	<9.00	0.06
3	09/10/2020	SEE/AR/10/2020,	0154	35.65	10.15	<3.00	<9.00	0.04
4	13/10/2020	SEE/AR/10/2020		26.74	28.82	<3.00	<9.00	0.03
5	15/10/2020	SEE/AR/10/2020	Accompanies to the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	24.59	14.32	<3.00	<9.00	0.05
6	19/10/2020	SEE/AR/10/2020	0331	33.34	15.16	5.62	<9.00	0.06
7	23/10/2020	SEE/AR/10/2020	0384	37.93	13.96	<3.00	<9.00	0.04
8	27/10/2020	SEE/AR/10/2020,	0449	27.22	16.52	9.50	<9.00	0.06
9	30/10/2020	SEE/AR/10/2020,	/0499	20.77	11.63	<3.00	<9.00	0.05
	NAA	IQS Limits*		100	60	80	80	4
	**************************************	Units		µg/ m³	μg/m³	μg/m³	μg/m³	mg/m³
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	

### *NATIONAL AMBIENT AIR STANDARDS (2009)

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

Dipali Sawant

Joho Rdexax Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Negar Road, M.I.D.C. Wagle Industrial Area, Thane 400 604. Maharashtra State, India.

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

: 310. Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (0832) 2437048 / 2437164 BRANCH OFF.

E-mail : sadekarenviro@rediffmail.com ® Website : www.sadekarenviro.com ® сіл №. ∪45209мн1998РТС-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. 1723-DTI-	ECL/SEEPL/2019-	21/02/2020	21/02/2021
	2012)	20/FLOW/5138		

## UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

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

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01	FPS - APM 550 MINI	ECL/SEEPL/2019-20/FLOW/5116	20/02/2020	20/02/2021	

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



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

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		AMBIEN	IT AI	R QUALITY	MONITORIN	G REPOR	T	
Report Date 03/11/2020								**
Nan	ne of Client	M/s. Megawi	de Con	struction DMC				
Add	lress of Client	Mopa, Goa				<u> </u>		
San	ple Collected I	By SEEPL Repre	sentat	ive				
Mor	ith of Samplin	g October 202	0					
***			.,	AMBIENT A	IR LOCATION			
Loc	ation of ambie:	nt air station	Khuty	wal				
Ave	rage Ambient	Femperature (°C)	30.6	Average	Humidity (%)	92	Latitude	N 15º42'58.3"
······································		1.7	Average	Wind direction(De	eg) 310	Longitude	E 73º53'57.0"	
Inst	ruments Used		FPS(A	APM-550), RDS	(APM-460)&GPS(A	APM - 411)		
Sr. Date of			PARAMETERS					
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	CO
1	01/10/2020	SEE/AR/10/2020/	0026	19.91	15.32	3.39	<9.00	0.03
2	06/10/2020	SEE/AR/10/2020/	0093	25.49	15.82	4.48	<9.00	0.05
3	09/10/2020	SEE/AR/10/2020/	0155	22.75	10.02	<3.00	<9.00	0.04
4	13/10/2020	SEE/AR/10/2020/	0210	29.24	15.22	3.45	<9.00	0.03
5	15/10/2020	SEE/AR/10/2020/	0275	25.63	16.45	<3.00	<9.00	0.06
6	19/10/2020	SEE/AR/10/2020/	0332	23.47	13.20	<3.00	<9.00	0.05
7	23/10/2020	SEE/AR/10/2020/	0385	21.22	14.82	<3,00	<9.00	0.03
8	27/10/2020	SEE/AR/10/2020/	0450	28.26	13.58	14.83	<9.00	0.05
9	30/10/2020	SEE/AR/10/2020/	0500	43.60	24.77	<3.00	<9.00	0.03
	NAA	QS Limits*		100	60	80	80	4
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³
Method			IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)	

### *NATIONAL AMBIENT AIR STANDARDS (2009)

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Analysed by Dipali Sawant

Johopalexon Authorized Signatory Varsha Pole.

HEAD OFF. & LAB.: : Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

(i): (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@sadekarenviro.com / psadekar6@gmail.com

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

BRANCH OFF.

: 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ①: (0832) 2437048 / 2437164

E-mail: sadekarenviro@rediffmail.com @ Website: www.sadekarenviro.com @ CIN No. U45209MH1998PTC-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.1899-DTJ-	ECL/SEEPL/2020-	24/07/2020	24/07/2021
	2014)	21/FLOW/541		

### UV Spectrophotometer

		Equipment Name	Calibration	
-	01		In House Calibration	l

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

Sr No.   Equipment Name		Equipment Name	Certificate No.	Calibrated on	Calibration due date	
	01		ECL/SEEPL/2019-20/FLOW/5120	20/02/2020	20/02/2021	

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



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		AMBIEN	IT AIF	QUALITY	MONITORING	G REPOR	T	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Report Date 03/11/2020									
Name of Client M/s. Megawide C/o GMR Goa in		de Cons intern	struction DMC ational Airport	C : Limited					
Address of Client Mopa, Goa							and any property of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		
Sam	ple Collected E	Sy SEEPL Repre	sentati	ve					
Mon	th of Samplin	g October 202	)						
			1	AMBIENT AI	R LOCATION				
Loca	ation of ambier	nt air station	Perne	m (Tuem)				Page 1	
Ave	rage Ambient '	Cemperature (°C)	29.9	Average	Humidity (%)	88	Latitude	N 15º41'24.97"	
	rage Wind Spe		1.0	Average Wind direction(Deg) 29			Longitude	E 73º47'40.70"	
Instruments Used FPS(A			FPS(A	S(APM-550), RDS(APM-460)&GPS(APM - 411)					
Cr. Dato of				PARAMETERS					
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	co	
1	01/10/2020	SEE/AR/10/2020/	0027	29.26	15.80	<3.00	<9.00	0.03	
2	05/10/2020	SEE/AR/10/2020,	0082	29.17	11.98	4.88	<9.00	0.04	
3	08/10/2020	SEE/AR/10/2020,	0128	28.99	14.91	<3.00	<9.00	0.04	
4.	12/10/2020	SEE/AR/10/2020	/0186	28.43	22.40	<3.00	<9.00	0.05	
5	15/10/2020	SEE/AR/10/2020,	/0229	25.14	16.97	<3.00	<9.00	0.07	
6	19/10/2020	SEE/AR/10/2020	/0333	88.28	30.36	<3.00	<9.00	0.06	
7	23/10/2020	SEE/AR/10/2020	/0386	20.85	15.45	<3.00	<9.00	0.07	
8	27/10/2020	SEE/AR/10/2020	/0451	21.47	16.32	<3.00	<9.00	0.06	
9	30/10/2020	SEE/AR/10/2020	/0501	24.09	13,96	<3.00	<9.00	0.07	
		QS Limits*	**************************************	100	60	80	80	4	
		Units		μg/ m³	μg/m³	μg/m³	μg/m³	mg/m³	
Method		IS 5182( Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182( Part 10)			

*NATIONAL AMBIENT AIR STANDARDS (2009)

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Analysed by Dipali Sawant Juno Pale Kena Authorized Signatory Varsha Pole

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.

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

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

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

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

## Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.		Calibration due date
01	RDS- APM 460 BL(SR NO.2028-DTD-	ECL/SEEPL/2020-	29/07/2020	29/07/2021
	2016)	21/FLOW/584		

### **UV** Spectrophotometer

Sr No.	Equipment Name	Calibration
101	UV	In House Calibration

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

	Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	1
						ı
Ì	01	FPS - APM 550 MINI	ECL/SEEPL/2020-21/FLOW/588	29/07/2020	29/07/2021	ļ
						1

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



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NOISE LEVEL MONITORING REPORT						
Report No. SEE/AR/10/2020/0276-0277,0370-0371,0441- 0442,0478-0479, 0486-0487,0507-0508 Report Date 03/11/2020						
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					

Sr.	Date of		Sampling Location	Į	Day Time	)	Night Time		
No.	Monitoring	Report No.		Lmin	Leq	Lmax	Lmin	Leq	Lmax
1.	17/10/2020	SEE/AR/10/2020/0276	Khutwal (G-N5)	35.1	51.1	59,4	34.2	41.7	49,4
2.	17/10/2020	SEE/AR/10/2020/0277	Chandel (G-N5)	42.7	53.1	59.9	38.1	44.5	49.9
3.	22/10/2020	SEE/AR/10/2020/0370	Netarde (M-N3)	32.3	50.2	69.2	31.0	42.8	53.7
4.	22/10/2020	SEE/AR/10/2020/0371	Patradevi (G-N9)	34.7	54.1	65.7	33.0	43.0	50.1
5.	26/10/2020	SEE/AR/10/2020/0441	Pernem (G-N8)	42.7	50.0	65.5	35.0	44.9	49.8
6.	26/10/2020	SEE/AR/10/2020/0442	Dingna (M-N2)	30.1	50.6	61.3	38.0	44.5	49.3
7.	28/10/2020	SEE/AR/10/2020/0478	Dhargal (G-N4)	40.5	54.6	59.9	37.2	44.6	50.4
8.	28/10/2020	SEE/AR/10/2020/0479	Nagzor (G-N3)	30.8	49.1	68.3	30,1	43.1	49.4
9.	29/10/2020	SEE/AR/10/2020/0486	Varkhand (G-N7)	32.4	53.8	69.6	33.8	44.2	59.1
10.	29/10/2020	SEE/AR/10/2020/0487	Satarda (M-N1)	40.0	54,3	59.9	33.0	44.1	49.9
11.	30/10/2020	SEE/AR/10/2020/0507	Shemecheadvan (G-N2)	31.1	59.6	72.4	33,9	49,1	65,4
12.	30/10/2020	SEE/AR/10/2020/0508	Mopa (G-N1)	33.6	59.3	70.1	52.3	57.1	65.8

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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 $\textcircled{0}: (91-22)\ 2583\ 3321\ /\ 2583\ 3322\ /\ 2583\ 3323\ /\ 2583\ 3324\ \bullet\ E-mail: prs@sadekarenviro.com\ /\ psadekar5@gmail.com\ /\ psadekar5@gmai$ 

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### Calibration Details of Equipment used for Sampling

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

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

#### Noise Level Meter No.2 (A0114-1408)

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



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WORKPLACE NOISE LEVEL MONITORING REPORT						
Report No. SEE/AR/10/2020/0392-0396 Report Date 24/10/2020						
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited					
Address of Client	Mopa, Goa	Mopa, Goa				
Date of Sampling	23/10/2020	23/10/2020				
Sample Collected By	SEEPL Representative					

Sr. No.	Report No.	Sampling Location	Noise in dB (A)
31, 140,	Meport No.	(From 1.0 meter off)	Day Time
01.	SEE/AR/10/2020/0392	Near ACC Batching Plant	83.1
02.	SEE/AR/10/2020/0393	PTB Working Area	79.4
03,	SEE/AR/10/2020/0394	ATC Working Area	82.5
04.	SEE/AR/10/2020/0395	Zone B- Working Area	82.8
05.	SEE/AR/10/2020/0396	Zone D- Working Area	83.0

- Occupational Exposure Limit for noise as per OSHA is 85dB (A) TWA (8hrly).
- *dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- > "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is the energy mean of the noise level over a specified period.

Note: Test results related only to the sample tested.

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

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Monitored by Sanjiyan Gawas

VehoEdeKox Authorized Signatory Varsha Pole

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②: (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail: prs@sadekarenviro.com / psadekar5@gmail.com

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Website: www.sadekarenviro.com 

CIN №. U45209MH1998PTC-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/199	17/07/2020	16/07/2021



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	ANALYSIS REPOR	RT FOR	WATER SAMPLE					
Report No.	SEE/10/2020/264	SEE/10/2020/264		Report Date		2020		
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa							
O. I / D. /	An and dated 02/40/2020	As per dated 23/10/2020 Environmental Condition of Lab		Environmental Condition of Lah		Tem	р ⁰ С	Humidity %
Order / Reference	As per dated 23/10/2020			27.7		58		
Sampling point	Ozari LSC							
Sample details	Ground Water (Well)		Date of collection	23/10/2020		/2020		
Sample Collected by	SEEPL Representative	SEEPL Representative S		Sample Received On		23/10/2020		
Analysis Started On	23/10/2020	23/10/2020		_	31/10/2020			
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can		Sample Quantity		1000 ml + 4000ml		

#### Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
î.	pH	7.30	,	6.5 - 8.5	APHA(23rdEdition) 4500 H+-B
2.	Turbidity	<1.00	NTU	1.00	APHA( 23rdEdition ) 2130 B
3.	Taste	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odour Odour	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	62.00	mg/lit	200,00	APHA( 23 rd Edition ) 2320 B
7,	Total Dissolved Solids	142.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as CI	17.01	mg/lit	250,00	APHA( 23rdEdition ) 4500 CF B
9.	Sulphate as SO ₄ -	3.96	mg/lit	200,00	APHA( 23rdEdition ) 4500 SO ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	ÁPHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	20.00	mg/lit	200.00	APHA( 23rdEdition ) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA(23 rd Edition) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit_{sc}	Eng// 0.50	Clause 6 of IS 3025 (Part 39) : 1991

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Report No.	SEE/10/2020/264	Report Date	31/10/2020	
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020	
Analysis Started On	23/10/2020	Analysis Completed On	31/10/2020	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CI- C
15.	Nitrate as NO₃	2.03	mg/lit	45.00	APHA(23 rd Edition) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23rdEdition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA( 23 rd Edition ) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA( 23 rd Edition ) 4500 CND
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23 rd Edition) 5540 − C
Metal	Analysis			79 110 100 100 100 100 100 100 100 100 10	
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA(23 rd Edition) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA(23™Edition) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA(23 rd Edition) 3120 B
23.	Calcium as Ca	3.20	mg/lit	75.00	APHA( 23 rd Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23 rd Edition ) 3120 B
25.	Iron as Fe	0,06	mg/lit	1.00	APHA( 23 [™] Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	2.93	mg/lit	30.00	APHA( 23 rd Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23™Edition ) 3120 B
30,	Zinc as Zn	<0.01	mg/lit	5.00	APHA(23rdEdition) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	APHA(23dEdition) 3120 B

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Report No.	SEE/10/2020/264	Report Date	31/10/2020	
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020	
Analysis Started On	23/10/2020	Analysis Completed On	31/10/2020	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-G

Note: Test results related only to the sample tested.

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Δ.	Equipment Name			Calibratio	n Details
Sr. No.		Equipment     Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/009	T2019/11/010	11/11/2019	11/11/2020
03.	U V Spectrophotometer	Q/0166	. •	Inhouse Calibration	
04.	ICP- OES	Q/162	**	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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•	ANALYSIS REPOR	RT FOR	WATER SAMPLE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************		
Report No.	SEE/10/2020/265	SEE/10/2020/265 Repor			31/10/2020		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
	As per dated 23/10/2020 Enviro		onmental Condition of Lab	Temp ^o C		Humidity %	
Order / Reference			Illitherital Collaboration of Eab	27.7		58	
Sampling point	At Site				1	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	
Sample details	Borewell Water 1		Date of collection	23/10/2020		/2020	
Sample Collected by	SEEPL Representative		Sample Received On		23/10/2020		
Analysis Started On	23/10/2020		Analysis Completed On		31/10/2020		
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can			1000 ml + 4000ml		

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	рН	6.74		6.5 - 8.5	APHA(23dEdition) 4500 H+B
2.	Turbidity	<1.00	NTÚ	1.00	APHA(23 rd Edition) 2130B
3,	Taste	Agreeable		Agreeable	APHA( 23 rd Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23rdEdition ) 2120 B
5.	Odour	Agreeable	-	Agreeable	APHA( 23rdEdition ) 2150 B
6.	Total Alkalinity	70.00	mg/lit	200.00	APHA(23 rd Edition) 2320 B
7.	Total Dissolved Solids	156.00	mg/lit	500.00	APHA( 23rdEdition ) 2540 C
8.	Chlorides as Cl -	15.01	mg/lit	250.00	APHA( 23rdEdition ) 4500 Cl- B
9,	Sulphate as SO ₄ -	4.15	mg/lit	200.00	APHA( 23rdEdition ) 4500 SO ₄ E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23 rd Edition ) 4500 S ² F
11.	Total Hardness as CaCO ₃	118.00	mg/lit	200.00	APHA( 23 rd Edition ) 2340 C
12.	Ammonia	<0.50	nng/lit	0.50	APHA( 23 rd Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit 6	0.50	Clause 6 of IS 3025 (Part 39): 1991

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Report No.	SEE/10/2020/265	Report Date	31/10/2020			
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020			
Analysis Started On	23/10/2020	Analysis Completed On	31/10/2020			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA( 23rdEdition ) 4500 CI- C
15.	Nitrate as NO₃	<1.00	mg/lit	45.00	APHA(23rdEdition) 4500 NO ₃ B.
16.	Fluoride as F-	<0.10	mg/lit	1.00	APHA(23™Edition) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA(23dedition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0.05	APHA(23™Edition) 4500 CND
19.	Anionic Detergents	<0.10	mg/lit	0,20	APHA( 23™Edition ) 5540 – C
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23™Edition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0,50	APHA( 23º/Edition ) 3120 B
23.	Calcium as Ca	25.65	mg/lit	75.00	APHA( 23™Edition ) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA( 23d Edition ) 3120 B
25.	Iron as Fe	<0.01	mg/lit	1.00	APHA(23rdEdition) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23 rd Edition ) 3120 B
27.	Magnesium as Mg	13.15	mg/lit	30.00	APHA( 23 rd Edition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 ^{rq} Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 3120 B
30.	Zinc as Zn	<0.01	mg/lit	5.00	APHA( 23rdEdition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23rd Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA(23rdEdition) 3120 B

< 0.01

mg/lit

0.05

Uchita Dongare Analyzed by

Copper as Cu

33.

Vehopde Kan Varsha Pole Authorized Signatory

APHA(23rdEdition) 3120 B

Report No.	SEE/10/2020/265	Report Date	31/10/2020			
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020			
Analysis Started On	23/10/2020	Analysis Completed On	31/10/2020			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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	Failinment Name Certificate No.		**************************************	Calibratio	on Details
Sr. No.		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/009	T2019/11/010	11/11/2019	11/11/2020
03.	U V Spectrophotometer	Q/0166	<b>.</b>	Inhouse Calibration	
04,	ICP- OES	Q/162		Inhouse (	Calibration
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08,	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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	ANALYSIS REPOR	RT FOR	WATER SAMPLE				
Report No.	SEE/10/2020/266	SEE/10/2020/266 Report Date				2020	
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
Order / Reference	As per dated 23/10/2020	Envir	onmental Condition of Lab	Temp ⁰ C		Humidity %	
Order / Retellence	As per dated 25/10/2020	LIIVS	official Condition of Edb	27.7		58	
Sampling point	At Site					*****	
Sample details	Borewell Water 2		Date of collection	23/10/2020		2020	
Sample Collected by	SEEPL Representative	SEEPL Representative Sample Receive		Sample Received On 23/10/2		2020	
Analysis Started On	23/10/2020	23/10/2020		Analysis Completed On		31/10/2020	
Sample Container	Glass bottle + PVC Can		Sample Quantity	Sample Quantity		1000 ml + 4000ml	

#### Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.60	**	6.5 - 8.5	APHA( 23™Edition) 4500 H∻B
2.	Turbidity	<1.00	NTU	1.00	APHA(23™Edition) 2130B
3.	Taste	Agreeable		Agreeable	APHA( 23 [™] Edition ) 2160 B
4.	Color	<1.00	Hazen unit	5.00	APHA( 23 ^a Edition ) 2120 B
5.	Odour	Agreeable	- EA	Agreeable	APHA( 23 rd Edition ) 2150 B
6.	Total Alkalinity	52.00	mg/lit	200,00	APHA( 23™Edition ) 2320 B
7.	Total Dissolved Solids	138.00	mg/lit	500.00	APHA( 23™Edition ) 2540 C
8.	Chlorides as Cl	16.01	nıg/lit	250.00	APHA( 23rdEdition ) 4500 CF B
9.	Sulphate as SO ₄ -	6.74	mg/lit	200.00	APHA( 23rdEdition ) 4500 SO4 E
10.	Sulfides	<0.05	mg/lit	0.05	APHA( 23rdEdition ) 4500 S2F
11.	Total Hardness as CaCO ₃	90.00	mg/lit	200,00	APHA(23™Edition) 2340 C
12.	Ammonia	<0.50	mg/lit	0.50	APHA( 23 [™] Edition ) 4500 NH ₃ B C
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39): 1991

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Report No.	SEE/10/2020/266	Report Date	31/10/2020				
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020				
Analysis Started On	23/10/2020	Analysis Completed On	31/10/2020				
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					

Chemical Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	Nil	mg/lit	0.50	APHA(23rdEdition) 4500 CI- C
15.	Nitrate as NO₃	<1.00	mg/lit	45.00	APHA(23rdEdition) 4500 NO ₃ B
16.	Fluoride as F	<0.10	mg/lit	1.00	APHA( 23™Edition ) 4500 F D
17.	Phenolic compound	<0.001	mg/lit	0.001	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	0,05	APHA( 23™Edition ) 4500 CN –D
19.	Anionic Detergents	<0.10	mg/lit	0.20	APHA(23rdEdition) 5540 – C
Metal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	APHA( 23rdEdition ) 3120 B
21.	Arsenic as As	<0.01	mg/lit	0.01	APHA( 23rdEdition ) 3120 B
22.	Boron as B	<0.01	mg/lit	0.50	APHA( 23rdEdition ) 3120 B
23.	Calcium as Ca	28.85	mg/lit	75.00	APHA(23idEdition) 3500CaB
24.	Cadmium as Cd	<0.001	mg/lit	0.003	APHA(23rdEdition) 3120 B
25.	Iron as Fe	<0.01	mg/lit	1.00	APHA( 23 rd Edition ) 3120 B
26.	Lead as Pb	<0.01	mg/lit	0.01	APHA( 23rdEdition ) 3120 B
27.	Magnesium as Mg	4.37	mg/lit	30.00	APHA( 23rdEdition ) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA( 23rdEdition ) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	APHA( 23rdEdition ) 3120 B
30,	Zinc as Zn	<0.01	mg/lit	5.00	APHA( 23rdEdition ) 3120 B
31.	Sodium as Na	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
32.	Potassium as K	<1.00	mg/lit	Not Specified	APHA( 23 rd Edition ) 3120 B
33.	Copper as Cu	<0.01	mg/lit(§)	11877 0.05	APHA( 23rdEdition ) 3120 B
	Dobber de od		1.00		1.11.11(750 73110)1.) 0.150 7

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Report No.	SEE/10/2020/266	Report Date	31/10/2020	
Order / Reference	As per dated 23/10/2020	Sample Received On	23/10/2020	
Analysis Started On 23/10/2020		Analysis Completed On	31/10/2020	
Name of Client  M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G

Note: Test results related only to the sample tested.

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_			P. W. C.	Calibratio	n Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	Hot Air Oven	Q/009	T2019/11/010	11/11/2019	11/11/2020
03.	U V Spectrophotometer	Q/0166		Inhouse Calibration	
04.	ICP- OES	Q/162		Inhouse (	Calibration
05.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021
06.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021
07.	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021
08.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021



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	ANALYSIS REPOR	RT FOF	RWATER SAMPLE					
Report No.	SEE/10/2020/267 Report Date 31/10/2020							
Name of Client	M/s, Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa							
	0.0000000	Envi	Environmental Condition of Lab		ıp ⁰ C	Humidity %		
Order / Reference	As per dated 23/10/2020	As per dated 23/10/2020 Enviro		27.7		58		
Sampling point	R.R. Canteen					***************************************		
Sample details	Drinking Water		Date of collection		23/10/	/2020		
Sample Collected by	SEEPL Representative		Sample Received On		23/10/	/2020		
Analysis Started On	23/10/2020	Analysis Completed On		31/10/	/2020			
Sample Container	Glass bottle + PVC Can Sample Quantity				1000	ml + 4000ml		

Microbiological Parameters

Sr.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA(23 rd Edition) 9221-G
3.	Faecal coliforms at 44.5°C for 24 hrs.	Absent	MPNIndex/100ml	Not specified	APHA( 23 rd Edition ) 9221-E

Note: Test results related only to the sample tested.

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Sr.		p-o _		Calibratio	Calibration Details		
No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021		
02,	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021		
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021		
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021		



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	ANALYSIS REPO	RT FO	R WATER SAMPLE					
Report No.	SEE/10/2020/261	SEE/10/2020/261 Report Date						
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa							
Order / Reference	As per dated 23/10/2020	As por dated 23/10/2020 Envi		Temp ⁰ C		Humidity %		
Cidoly (toloronico	715 per dated 25/10/2020	-114	rironmental Condition of Lab	27.7		58		
Sampling point	Water Tank at PTB							
Sample details	Drinking Water		Date of collection		23/10/	/2020		
Sample Collected by	SEEPL Representative		Sample Received On		23/10/	2020		
Analysis Started On	23/10/2020	23/10/2020		**************************************	31/10/	2020		
Sample Container	Glass bottle + PVC Can Sample Quantity 1000 ml + 4000ml					ml + 4000ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-G
3.	Faecal coliforms at 44.5°C for 24 hrs.	Absent	MPNIndex/100ml	Not specified	APHA( 23 [™] Edition ) 9221-E

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.	Microbiological Incubator (37 °C)	Q/003	T2020/08/049	26/08/2020	26/08/2021	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2020/08/048	26/08/2020	26/08/2021	
03	Laminar Air Flow	Q/001	2020/08/83	26/08/2020	26/08/2021	
04.	Autoclave	Q/010	E2020/05/044	30/05/2020	30/05/2021	



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	ANALYSIS REPO	RT FOR	WATER SAMPLE					
Report No.	SEE/10/2020/262	SEE/10/2020/262 Report Date						
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited							
Address of Client	Mopa, Goa		741111111111111111111111111111111111111					
Order / Reference	As per dated 23/10/2020	Ac partiated 23/40/2020   Envir		Temp ⁰ C		Humidity %		
Order y Molerenie	7.5 per dated 20/10/2020	Litter	onmental Condition of Lab	27.7		58		
Sampling point	LSC Colony							
Sample details	Drinking Water		Date of collection		23/10/	2020		
Sample Collected by	SEEPL Representative		Sample Received On	4-10-10-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	23/10/	2020		
Analysis Started On	23/10/2020	23/10/2020 A			31/10/2020			
Sample Container	Glass bottle + PVC Can	Glass bottle + PVC Can Sample Quantity 1000 ml + 4000m						

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23rdEdition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23™Edition ) 9221-G
3,	Faecal coliforms at 44.5°C for 24 hrs.	Absent	MPNIndex/100ml	Not specified	APHA( 23rdEdition ) 9221-E

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



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	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/10/2020/263	Report Date	31/1	0/2020			
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa		· · · · · · · · · · · · · · · · · · ·				
Order / Reference	As per dated 23/10/2020	Environmental Condition of Lab	Temp OC	Humidity %			
7.40.77(0)0,0,100	7.0 por dated 25/10/2020	Entrolline Condition of Edge	27.7	58			
Sampling point	VNC Colony			THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF			
Sample details	Drinking Water	Date of collection	23/1	23/10/2020			
Sample Collected by	SEEPL Representative	Sample Received On	23/1	23/10/2020			
Analysis Started On	23/10/2020	Analysis Completed On	31/1	31/10/2020			
Sample Container	Glass bottle + PVC Can	Sample Quantity	1000	1000 ml + 4000ml			

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	Total coliforms at 37°C for 48 hrs.	Absent	MPNIndex/100ml	Absent	APHA( 23 rd Edition ) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Absent	APHÁ( 23dEdition ) 9221-G
3.	Faecal coliforms at 44.5°C for 24 hrs.	Absent	MPNIndex/100ml	Not specified	APHA( 23rd Edition ) 9221-E

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



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:	ANALYSIS REPO	ORT FOR	WATER SAMPLE		***************************************	
Report No.	SEE/10/2020/280	······································	Report Date	02/11/20	020	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa	anders someograph period (Apply Specification of	эт жит жит он он он он он он он он он он он он он			
Order / Reference	As per dated 27/10/2020	Enviro	Environmental Condition of Lab		Humidity %	
	7.6 por dated 2777072020		THIS WAS CONDUCTOR OF EXP	27.8	69	
Sampling point	STP	***************************************				
Sample details	Inlet Water	· · · · · · · · · · · · · · · · · · ·	Date of collection	27/10/20	)20	
Sample Collected by	SEEPL Representative		Sample Received On	27/10/20	27/10/2020	
Analysis Started On	27/10/2020		Analysis Completed On	02/11/20	02/11/2020	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	1000 ml + 1000ml	

**Chemical Parameters** 

Sr. No.	Parameters	Results	Unit	Method
1.	рН	5.12	-	APHA(23rdEdition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	384.00	mg/lit	APHA( 23rd Edition ) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	105,00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	69.00	mg/lit	APHA( 23rd Edition ) 2540-D
5.	Oil & Grease (O & G)	40.20	mg/lit	APHA( 23 rd Edition ) 5520-O &G
6.	Ammonia	19.60	mg/lit	APHA( 23rdEdition ) 4500 NH ₃ B C.
7.	Phosphate as PO ₄	22,12	mg/lit	APHA(23rdEdition) 450 P C

Note: Test results related only to the sample tested.

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: Calibration details of the equipments used in monitoring and 7 or analysis is back side of analysis report.

Komal Gawas Analyzed by

Varsha Pole **Authorized Signatory** 

HEAD OFF. & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.LD.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

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

BRANCH OFF.

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

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

[				Calibrat	ion Details
Sr. No.	Enlloment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021
04.	Hot Air Oven	Q/009	T2019/11/010	11/11/2019	11/11/2020
05.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration	



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

SAVE WATER SAVE USE

Lab. accredited by NABL, Valid up to 29.06.2021 ★ Certified by ISO 9001:2015 & ISO 45001:2018

×	ANALYSIS REPO	RT FOR WATER SAMPLE					
Report No.	SEE/10/2020/281	Report Date	02/11/20	)20			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 27/10/2020	Environmental Condition of Lab	Temp ⁰ C	Humidity %			
Order / Neigreffice	As per dated 21/10/2020	Lifetion intelled Condition of Lab	27.8	69			
Sampling point	STP			**************************************			
Sample details	Outlet water	Date of collection	27/10/20	20			
Sample Collected by	SEEPL Representative	Sample Received On	27/10/20	27/10/2020			
Analysis Started On	27/10/2020	Analysis Completed On	02/11/2020				
Sample Container	Glass Bottle + PVC Can	Sample Quantity	1000 ml + 9000ml				

**Chemical Parameters** 

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6,60	-	5.5 - 9.0	APHA( 23 rd Edition ) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	104.00	mg/lit	250,00	APHA( 23rdEdition ) 5220-B
3,	Biochemical Oxygen Demand (27°C 3 day)(BOD)	19.65	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	32.00	mg/lit	100.00	APHA( 23 rd Edition ) 2540-D
5.	Oil & Grease (O & G)	9.60	mg/lit	10.00	APHA( 23 rd Edition ) 5520-O &G
6.	Ammonia	5.60	mg/lit	50.00	APHA( 23™Edition ) 4500 NH₃B C
7.	Phosphate as PO ₄	4.13	mg/lit	5.00	APHA( 23™Edition ) 450 P C

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

Note: Test results related only to the sample tested.

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

Analyzed by

Varsha Pole **Authorized Signatory** 

HEAD OFF, & LAB.: Plot No. A-95, Road No. 16, Kisan Nagar Road, M.L.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.

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

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E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com • си No. U45209МН1998РТС-116379

		Equipment Id		Calibrati	Calibration Details	
Sr. No.	Fallinment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/022	2020/08/81	26/08/2020	26/08/2021	
02.	COD Digester	Q/019	E2020/05/043	30/05/2020	30/05/2021	
03.	BOD incubator	Q/002	T2020/05/089	30/05/2020	30/05/2021	
04.	Hot Air Oven	Q/009	T2019/11/010	11/11/2019	11/11/2020	
05.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration		



# Half Yearly EC Compliance Report (October 2020 to March 2021)

#### ANNEXURE - 3

### FINANCIAL YEAR-WISE ENVIRONMENTAL EXPENDITURE

Note: All cost expenditures are in INR Crore.

r	Note. All cost experialitares are in INN Cron								
		EXPENSES	EXPENSES	EXPENSES					
S. N.	Particulars	FY 2018-19	FY 2019-20	FY 2020-21					
		(in INR Crore)	(in INR Crore)	(in INR Crore)					
1	AAQ & Noise Levels Monitoring (in	0.002	0.011	0.203					
	Goa & Maharashtra States)								
2	Dust suppression through tankers &	_	0.021	0.340					
_	chemical dust suppressants			0.0					
3	Water sprinkling systems, fog / mist	_	_	0.670					
	canons			0.070					
4	Use of curing agents to conserve	<u>.</u>	-	0.031					
	water during construction			0.031					
	Fund deposit to GSBB for								
5	compensatory tree afforestation of	-	0.2	0.4					
	5 lac trees								
6	Trees cutting, stacking &	1.5	0.3	0.2					
	enumeration	1.5	0.5	V.2					
7	Translocation of trees within the			0.451					
	site with maintenance			0.431					
8	Top soil preservation	0.29	-	0.59					
9	Labour colony - STP (225 KLD)	-	0.148	0.217					
10	Labour Colony – STP(50 KLD)	<del>-</del>	-	0.15					
11	Occupational health surveillance		"	0.095					
12	CTE Application fee	-	0.04	-					
13	CTO application Fees	0.009	-	0.065					
14	Environment Management Cell	0.6	0.7	1.1					
14	set up	U.0	0.7	1.1					
	TOTAL	2.401	1.42	4.512					





# Half Yearly EC Compliance Report (October 2020 to March 2021)

#### <u>ANNEXURE - 4</u>

# LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT As of 31st MARCH 2021

		Da	te	Statutory	Permit	
S.N.	Statutory Permits / Approvals	Issued	Validity	Authority	enclosed as	
1.	Environmental Clearance (EC)	28 th Oct 2015	27 th Oct 2023	MoEF&CC	Appendix-1	
2.	Amendment in EC - Change in PP	22 nd Feb 2018	-	MoEF&CC	Appendix-2	
3.	NGT Judgement Order	21 st Aug 2018	-	NGT	Appendix-3	
4.	Addendum to EC for Airport	13 th March 2020	-	MoEF&CC	Appendix-4	
5.	Site Clearance Certificate / In- principal approval for construction of airport	27 th July 2017	-	DGCA	Appendix-5	
6.	Renewal of Consent to Establish (CTE) for Airport	29 th Jan 2020	28 th Oct 2023	GSPCB	Appendix-6	
7.	Consent to Operate (CTO) for Batching Plant -1	17 th Jan 2019	16 th Jan 2023	GSPCB	Appendix-7	
8.	CTE for Hot Mix Plant	10 th Nov 2019	9 th Nov 24	GSPCB	Appendix-8	
9.	Amendment of CTO for change in location for Crusher plant	21 st Dec 2018	16 Feb 2022	GSPCB	Appendix-9	
10.	Authorization for Bio-medical wastes	5 th June 2020	4 th June 2030	GSPCB	Appendix-10	
11.	CTO for Hot Mix Plant, WMM & crushers	3th June 2020	2 nd June 2030	GSPCB	Appendix-11	
12.	Ground water drawl permission (Borewell-1)	13 th March 2019	12 th March 2024	Water Resources Department (WRD), GoG	Appendix-12	
13.	Ground water drawl permission (Borewell-2)	13th March 2019	12 th March 2024	WRD, GoG	Appendix-13	
14.	Amendment – 1 in CTE for Airport	2 nd June 2020	-	GSPCB	Appendix-14	
15.	Amendment – 2 in CTE for Airport	2 nd Nov 2020	-	GSPCB	Appendix-15	
16.	Amendment – 3 in CTE for Airport	08 th April 2021	-	GSPCB	Appendix-16	
17.	Certificate from Chief Wild Life Warden (CWLW)	16 th June 2020	-	CWLW, GoG	Appendix-17	
18.	CTO for 8 nos. Mobile crushers	15 th Dec 2020	15 th Dec 2030	GSPCB	Appendix-18	
19.	CTO for 12 nos. Mobile crushers	20 th April 2021	19 th March 2031	GSPCB	Appendix-19	
20.	CTO for Batching Plant -2	9 th April 2021	3 rd March 2036	GSPCB	Appendix-20	
21.	CTO for STP of 50 KLD in labour colony	22 nd April 2021	21 st Dec 2030	GSPCB	Appendix-21	
22.	PESO approval for HSD storage	15 th July 2020	31 st Dec 2022	PESO	Appendix-22	
23.	Approval of revised storm water drainage plan and rain water harvesting plan	1.0 th Feb 2021	-	WRD, Goa	Appendix-23	



# Half Yearly EC Compliance Report (October 2020 to March 2021)

GMR Goa	International Air	port Limited
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S.N.		Date		Statutory	Permit
	Statutory Permits / Approvals	Issued	Validity	Authority	enclosed as
24.	Approval for monitoring locations of CAAQMS & Noise Monitoring Terminals & temporary stations	9 th March 2021	-	GSPCB	Appendix-24
25.	EC for Quarry-1 M/s Krishna Vasudev Kudnekar / Sahasra	18 th Dec 2017	17 th Dec 2024	DEIAA, Sindhudurg, Maharashtra	Appendix-25
26.	EC for Quarry-2 M/s Sai Metals / Sahasra	3 rd June 2017	2 nd June 2024	DEIAA, Sindhudurg, Maharashtra	Appendix-26
27.	EC for Quarry-3 M/s Antonio Crispino Sequeira (AMCPL)	1st August 2016	31st July 2023	SEIAA, Maharashtra	Appendix-27
28.	EC for Quarry-4 M/s Vishal Prabhakar Parab	14 th March 2013	13 th March 2023	SEIAA, Maharashtra	Appendix-28



#### F.No.10-29/2011-IA.III

Government of India Ministry of Environment, Forest & Climate Change (IA-III Section)

> Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3

Dated: 28th October, 2015

To

The Director, Directorate of Civil Aviation, Govt. of Goa, Secretariat, Porvorim, **Goa** – 403 521

Sub: 'Greenfield International Airport' at MOPA (Goa) by Directorate of Civil Aviation, Govt. of Goa - Environmental Clearance reg.

Sir,

This has reference to your application No. SAP/1/98/-Vol-VII (Part II) dated 20.05.2015 and subsequent letters dated 06.08.2015 and 08.10.2015, submitted in the above-mentioned proposal to this Ministry for grant of Environmental Clearance (EC) in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection), Act, 1986.

- The proposal for 'Greenfield International Airport' at MOPA (Goa) by Directorate of Civil Aviation, Govt. of Goa was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meetings held on 24th - 26th June, 2015, 7th - 9th September, 2015 & 20th October, 2015.
- The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meetings, are reported to be as under:-
- The project was accorded TOR vide letter No.10-29/2011-IA.III dated 01.06.2011 and extension of validity was granted on 29.05.2015.
- The proposal involves development of Greenfield International Airport at MOPA of Tehsil Pernem (Goa) by Directorate of Civil Aviation, Govt. of Goa. The project is located at N 15044'30", E 73052'00".

The total area is 2271 acres. The land has been acquired based on (iii) approved compensation as per Govt. of Goa.

- The project will be implemented in four phases. The components in Phase I of proposed Mopa Airport shall include one runway, with half parallel taxiway, three runway exits and Phase II includes one runway with full parallel building, security area and control points, GSE storage, parking, technical area, cargo, maintenance, general and business aviation areas, road network, rail connectivity and airport city.
- The airfield consists of one single runway with takeoff available distance of 3,750 meters and 60 meters of runway width to accommodate the super-jumbo A380 aircraft. The runway will be equipped with both elevated and inset lights for

at-all-time operations consisting of a CAT I approach system before both runway thresholds which comprises a row of lights along the extension of the runway axis, to a distance of 900 m. The area required for these activities including apron and hangars, is expected to be 15,300 m². The aircraft maintenance facilities are estimated to provide space for 1 hanger.

- (vi) The water requirement in Phase I, Phase II, Phase III and Phase IV is 1 MLD, 1.8 MLD, 3 MLD and 6 MLD respectively. The source of water will be provided by Tillari Irrigation Canal of Irrigation Department, Dhargal Division.
- (vii) The total solid waste generation will be 6.1 tonnes per day for Phase I and 18.2 tonnes per day for Phase IV. Solid waste collected will be disposed in disposal facility owned by Govt. of Goa. From airport, used oil, lubricants, electronic waste shall be generated and the same shall be disposed through SPCP authorized re-processor. Used batteries will be given to dealers as part of buy back arrangement.
- (viii) The quantity of sewage generated in Phase I, Phase II, Phase III and Phase IV is 1 MLD, 1.5 MLD, 2.4 MLD & 5 MLD respectively and STP capacity is 1120 cum, 1500 cum, 2400 cum & 5000 cum respectively.
- (ix) The sewage treatment plant will include tertiary treatment plant for reusing the treated effluent for irrigation of landscaping and garden areas. The aircraft waste will be chemically stabilized.
- (x) The total power required for the proposed airport is 40 MW which will be sourced from 220/110 KV independent High Tension (HT) lines from Western Grid: Tivim/Colvale/ Mapusa substation and from Southern Grid of Karnataka/ Amona at Sesa Goa and Ponda Substation. Emergency/generator power supply shall be met from 5 numbers of Generators each having capacity of 2000 KW.
- (xi) A Disaster Management Plan for various scenarios which includes the emergency control measures, plan of coordination and interaction with various agencies including administrative agencies, rescue and relief operations, training and awareness to minimize the severity of disasters has been prepared to plan for emergency response and to provide for resource mobilization.
- (xii) The greenbelt development will be 33% of total area.
- (xiii) Minimum 20% energy conservation measures will be adopted incorporating provisions for use of LED, star rated A.Cs. etc.
- (xiv) **R&R issues**: 14 houses need to be displaced and R&R Policy of Govt. of Goa to be followed.
- (xv) **Investment/Cost**: The total cost of the project is Rs. 3000 Crores.
- (xvi) **Public Hearing** was conducted on 01.02.2015 at Simechen Adven, Mopa, Goa. The major issues raised during public hearing and responses sought from the project proponent related to employment opportunities.
- (xvii) **Wildlife issues**: There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone.
- (xviii) Forest land: No forest land is involved in the project.
- (xix) There are no court cases/violations pending against the project.
- 4. The EAC in its meeting held on 20th October, 2015 has recommended the project for grant of Environmental Clearance. As per the recommendation of EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental Clearance for the above-mentioned project 'Greenfield International Airport' at MOPA (Goa) by Directorate of Civil Aviation, Govt. of Goa under the provisions of the EIA Notification, 2006 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific and general conditions mentioned below:-

EC_MOPA International Airport

### A. SPECIFIC CONDITIONS:

- (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.
- (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.
- (iii) The approach and exit roads to the Airport shall be got approved from the NHAI and should be according to IRC norms.
- (iv) A perusal of the Topo sheet superimposed on the runway area indicates that the extreme end of the runway is covering the drainage area partly. The drainage area which is under the runway shall be channelized. The area between the parallel taxiway and runway shall be handled carefully to drain the water from the area in the outfall 2.
- (v) The PP shall submit the site clearance certificate from Directorate General of Civil Aviation (DGCA), before commencement of work at the project site.
- (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.
- (vii) The solid waste generated shall be properly collected, segregated and disposed according to the provisions of Solid Waste (Management and Handling) Rules, 2000. The project proponent shall make provisions for drinking water at convenient places for passengers and also at the cafeterias as to reduce generation of solid wastes including PET bottles.
- (viii) Installation and operation of DG sets shall comply with the guidelines of CPCB.
- (ix) Parking provision shall be provided according to the National Building Code of India, 2005.
- (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.



- xi) Necessary permission shall be obtained for drawing of ground water from competent authority prior to construction / operation of the project.
- (xii) The landuse around the Airport complex shall be regulated through a plan to control unauthorized development which may create problems in the operation of Airport.
- (xiii) The wastewater from hangers shall be tested for presence of heavy metals, if any, and shall be treated in STP. The treated waste water shall be used for gardening/ flushing.
- (xiv) Rain water harvesting shall be provided to recharge the ground water.

- (xv) Energy conservation to the extent of at least 20% shall be incorporated including water conservation (reuse/recycle, rain water harvesting and water efficient fixtures) and other green building practices for various buildings proposed within the airport complex. The PP shall consider ECBC Guidelines 2009 to achieve energy-efficiency. The energy conservation measures shall be subject to periodic verification by the competent Energy Conservation/ Efficiency authority in the State.
- (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.
- (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.
- (xviii) The responses/commitments made during public hearing shall be complied with in letter and spirit.
- (xix) Project Proponent shall install noise level display system. Noise level shall be monitored regularly in all seasons (different meteorological conditions) within the compound as well as nearby habitations and it shall be ensured that the noise level is within the prescribed limits. During night time the noise levels measured at the boundary shall be restricted to the permissible levels to comply with the prevalent regulations.
- (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 25th June, 2008.
- (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.
- (xxii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the SPCB.
- (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.
- (xxiv) The project proponent will set up separate convironmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.

EC MOPA International Airport Page 4 of 8

## (xxv) Corporate Environment Responsibility:

- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/ conditions.
- 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.
- 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.

#### B. GENERAL CONDITIONS:-

- (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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (ii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (iii) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (iv) Disposal of muck during construction phase should not create any adverse effect on the neighbouring 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.
- (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.
- (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.
- (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 27th August, 2003.
- (viii) Ready mixed concrete must be used in building construction.
- (ix) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (x) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

EC_MOPA International Airport

Page 5 of 8

- (xi) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xii) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xiii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.
- (xiv) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.
- (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.
- (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.
- (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.
- (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.
- (xix) Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.
- (xx) Full support shall be extended to the officers of this Ministry/ Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (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.
- (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.
- (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.

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- (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.
- (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.
- (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.
- (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.
- (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.
- 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.
- 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.
- 7. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry.
- 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.
  - 9. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
  - 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.

EC, MOPA International Airport

The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

> (Y. P. Singh) Scientist 'D'

#### Copy to: -

- 1. The Secretary (Environment), Department of Science, Technology & Environment, Government of Goa, Panjim, Goa
- 2. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
- 3. The Member Secretary, Goa State Pollution Control Board, Dempo Towers, EDC Plaza, Patta, Panaji - 01
- 4. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, Bangalore - 34
- 5. Guard File
- 6. Monitoring Cell

(Y. P. Singh) Scientist 'D'

# F. No. 10-29/2011-IA-III Government of India Ministry of Environment, Forest and Climate Change (IA.III Section)

Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3

Date:  $23^{\text{h}}$  February, 2018

To,

Shri. R.V.Sheshan, Chief Executive Officer, GMR Goa International Airport Limited, Survey No. 381/3, Mathura One, 1st Floor, NH 17, Porvorim, Goa - 403521.

Subject: Development of Greenfield International Airport at Mopa, Goa by Government of Goa. – Amendment in Environmental Clearance - reg. Sir.

This has reference to your online proposal No. IA/GA/MIS/27928/2015 dated 03rd February 2017, submitted to this Ministry for grant of Amendment in Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

- 2. The proposal for grant of Amendment in environmental clearance to the project 'change in the name of the Project Proponent from Directorate of Civil Aviation, Government of Goa to GMR Goa International Airport Limited' was considered by the Expert Appraisal Committee (Infra-2) in its meetings held on 21st-24th August, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting, are under:-
- (i) Ministry of Environment, Forest and Climate Change granted EC for development of Greenfield International Airport at Mopa in Goa vide letter No. F. No. 10-29/2011-IA.III dated 28th October 2015. Government of Goa through a competitive bidding process has awarded the work of construction of the said airport on PPP basis to GMR Goa International Airport Limited (GGIAL). The Concession Agreement between Government and GGIAL was signed on 8th November 2016. The Foundation Stone of the project was laid on 13th November 2016 at the hands of Hon'ble Prime Minister of India. GGIAL has achieved Financial Closure by signing Common Loan Agreement with M/s Axis Bank for funding the project. Further, GGIAL is also in the process of completing pre development works/requirements and thus the construction work is expected to commence shortly. The Goa State Pollution Control Board has already issued consent to establish vide letter No. 5/5163/16-PCB/CI-1999 dated 7th September 2016 and same has been transferred in the name of GGIAL.
- (ii) As per para 11 of MOEF&CC notification SO.1533 dated 14.9.2006, a prior environmental clearance granted for a specific project or activity to an applicant may be transferred during its validity to another legal person entitled to undertake the project. Accordingly, Government of Goa has submitted the proposal for transfer of EC granted for the project to GMR Goa International Airport Limited vide letter No. SAP/1/98-vol-VII (Part II)/1032 dated 13th February 2017.

Pallow

Accordingly, the proposal is before the Expert Appraisal Committee for consideration of amendment in EC to transfer in the name of GGIAL.

- 3. The Expert Appraisal Committee, after detailed deliberations on the proposal, has recommended for grant of Amendment in Environmental Clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Amendment in Environmental Clearance w.r.t change in the name of the Project Proponent from Directorate of Civil Aviation, Government of Goa to GMR Goa International Airport Limited.
- 4. All other terms and conditions mentioned in this Ministry's EC letter no. 10-29/2011-IA.III dated 28th October, 2015 shall remain the same.
- 5. This issues with the approval of the Competent Authority.

(Kushal Vashist) Director

#### Copy to:

- 1) The Secretary, Department of Environment, Government of Goa, Panaji. Goa.
- 2) The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore 560034.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi 110 032.
- 4) The Member Secretary, Goa State Pollution Control Board, Dempo Tower, EDC Plaza, 1st Floor, Panaji, Goa 403 001.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.

(Kushal Vashist) Director

#### BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI

#### Appeal No. 05 of 2018

(M.A. No. 975 of 2018 & M.A. No. 988 of 2018) (Earlier Appeal No. 61 of 2015 (WZ))

#### And

#### Appeal No. 06 of 2018

(Earlier Appeal No. 1 of 2016 (WZ)) (M.A. No. 42 of 2018)

#### IN THE MATTER OF:-

Federation of Rainbow Warriors, Margao Vs. Union of India & Ors.

Hanuman Laxman Aroskar & Anr. Vs. Union of India & Ors.

CORAM:

HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON HON'BLE DR. JUSTICE JAWAD RAHIM, JUDICIAL MEMBER HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Appeal No. 05 of 2018 Present: Appellant:

Respondents

Mr. Abhijit P., Appellant in person

Ms. Sakshi Popli forMr. Divya Prakash Pande, Adv. for Ministry of Environment, Forest and Climate Change

Mr. A.D.N. Rao, Adv.

Mr. Atmaram NS Nadkarni, ASG Mr. DattaprasadLawande, Ld. AG for State of Goa along with Mr. Jai Dehadrai, Adv. Mr. S.S. Rebello, Advs. for State of Goa.

Ms. Anuj Sarma, Adv. Mr. Datta Prasad Lawande, Jai Dehradrai, Mr. SS. Rebello, Mr. A.K. Kunculiencar and Mr. Akshaya A. Joglekar, Advs.

Appeal No. 06 of 2018 Present: Appellant:

Respondents

Mr. Ritwick Dutta, Mr. Utkarsh Jain and Ms. Meera Gopalm Advs.

Ms. Sakshi Popli for Mr. Divya Prakash Pande, Adv. for Ministry of Environment, Forest and Climate Change

Atmaram NS Nadkarni, ASG Mr. Dattaprasad Lawande, Ld. AG for State of Goa along with Mr. Jai Dehadrai, Adv. Mr. S.S. Rebello, Advs. for State of Goa.

Ms. Anuj Sarma, Adv.

Mr. Datta Prasad Lawande, Jai Dehradrai, Mr. SS. Rebello, Mr. A.K. Kunculiencar and Mr. Akshaya A. Joglekar, Advs.

Date and Remarks	Orders of the Tribunal
Item No. 04 & 05	1. This appeal has been preferred against the grant of
August 21, 2018	Environmental Clearance for development of Greenfield
DV + A	International Airport at Mopa in Goa vide the impugned
	order dated 28.10.2015. According to the impugned order,
	the proposal was submitted to the Ministry of
	Environment, Forest and Climate Change (MOEF&CC) for

August 21, 2018 Environmental Clearance in terms EIA Notification, 2006 by the Director of Civil Aviation, Goa on 20.05.2015 followed by subsequent letter dated 06.08.2015 and The same was considered by the Expert 08.10.2015. Ministry Committee (EAC) in the Appraisal Environment, Forest & Climate Change for environmental approval of Infrastructure, Building /Construction and Miscellaneous projects, in its meetings held on 24th - 26th June, 2015, 7th - 9th September, 2015 and 20th October, 2015. The details of the project are mentioned as follows:-

- "(i) The project was accorded TOR Vide letter No. 10-29/2011-IA.III dated 01.06.2011 and extension of validity was granted on 29.05.2015.
- (ii) The Proposal involves development of Greenfield International Airport at MOPA of Tehsil Pernem (Goa) by Directorate of Civil Aviation, Govt. of Goa. The Project is located at N 15°44'30", E 73°52'00".
- (iii) The total area is 2271 acres. The land has been acquired based on approved compensation as per Govt of Goa.
- (iv) The project will be implemented in four phases. The components in Phase I of proposed Mopa Airport shall include one runway, with half parallel taxiway, three runway exits and Phase II includes one runway with full parallel building, security area and control points, GSE storage, parking, technical area, cargo, maintenance, general and business aviation areas, road network, rail connectivity and airport city.
  - The airfield consists of one single runway with takeoff available distance of 3,750 meters and 60 meters of runway width to accommodate the super-jumbo A380 aircraft. The runway will be equipped with both elevated and inset lights for at all-time operations consisting of a CAT I system before both runway approach thresholds which comprises a row of lights along the extension of the runway axis, to a distance of 900m. The area required for these activities including apron and hangars, is expected to be 15,300 m². The aircraft maintenance facilities are estimated to provide space for 1 hanger.
- (vi) The water requirement in Phase I, Phase II, Phase III and Phase IV is 1 MLD, 1.8 MLD, 3 MLD and 6 MLD respectively. The source of water will be provided by Tillari Irrigation Cannal of Irrigation Department, Dhargal Division.

	(vii) The total solid waste generation will be 6.1
	tonnes per day for Phase I and 18.2 tonnes per
	day for Phase IV. Solid waste collected will be
	disposed in disposal facility owned by Govt. of
Item No.	Goa. From airport, used oil, lubricants,
04 & 05	electronic waste shall be generated and the
0.00	same shall be disposed through SPCP
August 21,	authorized re-processor. Used batteries will be
2018	given to dealers as part of buy back
DV + A	arrangement,
	(viii) the quantity of sewage generated in Phase I,
	Phase II, Phase III and Phase IV is 1 MLD, 1.5
	MLD, 2.4 MLD and 5 MLD respectively and STP
	capacity is 1120 cum, 1500 cum, 2400 cum &
	5000 cum respectively.
	(ix) The sewage treatment plant will include tertiary treatment plant for reusing the treated
	effluent for irrigation of landscaping and
	garden areas. The aircraft waste will be
	chemically stabilized.
	(x) The total power required for the proposed
Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	airport is 40 MW which will be sourced from
100 miles	220/110KV independent High Tension (HT)
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	lines from Western Grid:
The part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the pa	Tivim/Colvale/Mapusa substation and from
2 4	Southern Grid of Karnataka/Amona at Sesa
	Goa and Ponda Substation.
	Emergency/generator power supply shall be
	met from 5 numbers of Generators each having
April 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section 1 To Section	capacity of 2000KW.
Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Services and Annual Servic	(xi) A Disaster management Plan for various
1,11	scenarios which includes the emergency control
	measures, plan of coordination and interaction with various agencies including administrative
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	agencies, rescue and relief operations, training
	and awareness to minimize the severity of
Total Land Control of	disasters has been prepared to plan for
For Water State Control of the Contr	emergency response and to provide for
	resource mobilization.
STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P	(xii) The greenbelt development will be 33% of total
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	area area area area area area area area
100 (100 (100 (100 (100 (100 (100 (100	(xiii) Minimum 20% energy conservation measures
1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March 1.00 March	will be adopted incorporating provisions for
	use of LED, star rated A.Cs. etc.
	(xiv) <b>R&amp;R issues: 14</b> houses need to be displaced and R&R Policy of Govt. of Goa to be followed.
	(xv) Investment/Cost: The total cost of the project
	is Rs. 3000 Crores.
	(xvi) <b>Public Hearing</b> was conducted on 01.02.2015
	at SimechenAdven, Mopa, Goa. The major
	issues raised during public hearing and
	responses sought from the project proponent
	related to employment opportunities.
	(xviii) <b>Wildlife issues:</b> There are no National Parks,
	Wildlife Sancutary, Biosphere Reserves found
	in the 10 km buffer zone.
	(xviii) <b>Forest Land:</b> No forest land is involved in the
	project. (xix) There are no court cases/violations pending
	against the project."
	against the project.

Item No. 04 & 05

August 21, 2018

- The EAC recommended the grant of Environmental Clearance and the MOEF&CC accordingly granted the Environmental Clearance subject to the conditions mentioned therein. The conditions included obtaining Consent to Establish under the Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974, availability of land for traffic circulation/management, approach and exit roads channelizing the drainage area, site clearance town DGCA, treatment of sewage and liquid effluents, compliance of Solid Waste (Management and Handling) Rules, 2000, installation and operation of DG sets as per Central Pollution Control Board guidelines, parking according to the National Building Code of India, 2005 and other conditions mentioned therein in terms of the EIA Notification, 2006.
- 3. The appellants claim to be inhabitants of the area and aggrieved by the grant of EC. Their concerns are displacement of residents, damage to the environment, loss of ground water and flora and fauna of the region.
- 4. According to the appellants, Goa's water resources are facing severe crisis, Goa has scarcity of land for housing and food or for buffer zones. The Project Proponent concealed vital facts regarding the need for the environmental and socio- economic aspects. The Terms of Reference (ToR) concealed many important aspects. The report of the public hearing was not made available to the inhabitants. The same was in English language. The baseline data was three years old. Before public hearing was held, vested interest mobilize political workers from outside. While police force was brought to the place of

August 21, 2018 hearing, the villagers could not attend the hearing or could not voice their opinions dais was far away from the attendees. The minutes of the public hearing do not reflect all the issues raised. The minutes were changed in the compliance statement. Expansion of validity of ToR was not justified. The Expert Appraisal Committee held 149th, 151st and 152nd meetings. Final report was submitted without any visit to the site. The geology of the area is not properly projected. The flora and fauna data is incorrectly mentioned. The primary and secondary data is of 2011 but projected to be of 2013 December or 2014 February. endangered species which There are acknowledged, without any study of the floral diversity of the surroundings. No site visits were undertaken.

- 5. Reference is made to study conducted by Girish Punjabi and Atul Borkar. The Rescue Register of the Forest Department shows that there are rescued animal but they are not considered in the secondary data. Reliance has also been made to the studies to the Surveys conducted by Ms. Clara Correia and Shri Avinash Bhagat and Grey Headed Bulbul, Malabar Grey Hornbills, Crimson, Dr. Aparna Watve, Sanjay Thakur.
- 6. Further case of the appellants is that the EIA report concealed the facts that there are dense forests in the area and it does not mention the number of trees to be cut for the project. The project is also surrounded by unidentified private forests as shown in Regional Plan 2021 maps. The Forest Survey of India Report 2013 shows the forest area to be much more than what is mentioned in the EIA report. Facts regarding agriculture have been concealed. There are perennial springs sustaining the

Item No. 04 & 05 August 21, 2018

Fodder is available. area. There is hang or tribal settlements. Only 14 houses are mentioned. There are fields and historical caves. There are thick forests. The impact study has not considered the impact of the airport city which will be built. The impact of residences and facilities to be built on the land nearby has also not been considered. 40% of the study area falls in the State of Maharashtra for which no study has been done. The loss of forest in Maharashtra, particularly impact on tigers and elephants using the Tiger corridor has not been considered. The site selection is not based on rigorous studies. An airport already exists and decision to built second airport is arbitrary. The existing airport could be upgraded. The same has been recently upgraded four times of its previous capacity. It can handle 12 million passengers which will be enough for next 20 years. International tourism in the Goa is on the decline. Acquisition of the site was before the impact assessment study by invoking urgency clause. The acquisition was upheld by the Hon'ble High Court subject to the compliance of the environment laws. The project is pushed by feudal land lords and speculators who have purchased land in the nearby area. Expansion of National Highway to give effect to the project will lead further damage to the environment. Illegal mining in Goa has already damaged the environment. The Project is against the National interest and only for short term speculative profits for a few. Investment in airport infrastructure should be channelized to other regions. The area does not have enough water for its present needs and the project will create further scarcity.

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- 7. The appellants have relied upon several documents including Forest Survey of India Report of 2013, photographs showing agriculture, water collection, sacred groves, scientific study report and press reports.
- 8. An affidavit in reply has been filed by respondent no. 2, Directorate of Civil Aviation, Goa on 28.04.2016, stating that decision to setup second airport and the site where it is to be setup is a matter of policy decision and cannot be interfered with unless the same is shown to be arbitrary. Only an aggrieved person can file an appeal and the appellants do not meet that qualification. Objection to the project is by the citizens of South Goa where an airport already exists. The second airport is proposed in North Goa and only one person from the North Goa who has moved this Tribunal is Hanuman Laxman Aroskar.
- According to the appellants, the objection of the appellants is for peripheral reasons as well as the existing cartelized business operators of the region. The project was envisioned in terms of the 'Guidelines for Setting up of Greenfield Airports issued by the Ministry of Civil Aviation, Union of India in the year 2008. The existing airport at Dabolim-Vasco da Gama is under the control and management of Indian Navy. It also operates as International and Domestic Civilian Airport. It is 9th busiest airport in India. The schedule for takeoffs and landings is congested. Even the enhanced capacity in the existing airport has been found to be deficient as per the Master Plan study carried out through Technical Consultants in the year 2011. The existing airport can cater to only 4 - 5 million passengers annually. Indian Navy has sought vacation of land. The most frequented

Item No. 04 & 05 August 21, 2018 beaches are in North Goa. Travelling to such beaches requires increased consumption of fuel and emission levels. Further expansion of existing airport is not feasible. Feasibility study report was submitted by International Civil Aviation Organization (ICAO). The State Government identified three sites. Considering the geo-locations, available land, resources, nature of the land use and proximate population it was the considered expert opinion that site at Mopa was the most suitable and conducive for development of the proposed International Terminal.

The expert opinions were sought from the internationally acclaimed - Amman & Whitney USA, Gresler and Associates International Ltd and others to prepare and formulate an Airport Master Plan for the proposed International Airport in Goa. The Master Plan assessed the aviation capacity, needs and potential of the State of the Goa, the topography, geology, land use, climate and natural resources available at the proposed site at Mopa. Accordingly, a comprehensive Master Plan has been formulated which includes phase wise development strategy for the proposed project. The new airport will have world class services with the least carbon footprints and pollution emission levels. It will have comprehensive Rain Water Harvesting System, Sewage Treatment Plant, product of the STP will be channelled towards development of a Greenbelt covering 33% of the site area with endemic species of trees at a density of approximately 1500 trees per hectare. It was stated that this Greenbelt will not only mitigate noise pollution generated, but will also recharge the aquifers with allied forestry benefits.

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- The ToRs had to be extended after due application of mind on account of alteration of the project from 4,500 acres to 2,271 acres. The Engineers India Limited (EIL) was appointed to prepare the EIA report and EMP. The EIL is an Expert on the subject. Field studies were carried out by EMTRC Consultants Pvt. Ltd. from October to December 2011. In the said season most appropriate data is available. The data was assessed in respect of:
  - > Air at 6 locations namely at Mopa, Sinechaadvin, Patradevi, Pernem, Nagzor and Katwal;
  - Groundwater at 4 locations namely at Patradevi, Mopa, Pernem and Dhargal.
  - Surface water at 3 locations namely at Tiracol, Sinechaadvin and Chopora; and,
  - Soil quality at 5 locations namely at Mopa, Sinechaadvin, Nagzor Pernem, and Katwal.
  - Noise at 9 locations namely at Patradevi, Mopa, Sinechaadvin, Chandel, Varconda, Nagzor Pernem, Katwal and Dhargal.
- Govt. of Goa has also appointed M/s Pragati Consultancy Pvt. Ltd. to conduct independent field studies and collect base line data. The data was collected for 10 km radius and refers to several studies including the following:
  - Birds of Goa by Heinz Lainer & Rahul Alvares;
  - The Goan Jungle Book by Nirmal Kulkarni;
  - ii. A photographic guide to Butterflies of Goa by Parag Rangnekar;
  - Flora of Goa, Diu, Daman, iv, Dadra and Nagarhaveli (vol-1) by R S Rao;
  - Flora of Goa, Diu, Daman, v. Dadra and Nagarhaveli (vol-2) by R S Rao;
  - Red Data Book published by Botanical Survey of vi. India; and,
  - vii. Study materials published in Goa ENVIS Centre were also referred.
- The proposed site is a laterite rock plateau sparsely covered by shrubs, trees and minor cultivation by the inhabitants. It is pertinent to note that the dimensions of the project were substantively altered from 4500 acres to 2271 acres after preliminary inquiry, in order to exclude

August 21, 2018 vegetated, inhabited and cultivated portions of the proposed land to be acquired for the proposed project, in sight of the socio-economic needs of the residents of the locality. This area is outside the Kasturirangan Committee Report. The objections are based on conjectures and surmises. The project is of national importance.

14. Respondent no. 1, MoEF&CC in its affidavit filed on 06.04.2016 supports the impugned order and also relies upon point-wise reply of the Government of Goa in its letter dated 08.10.2015 which was considered by the Expert Appraisal Committee (Infrastructure) in its meeting on 20.10.2015. The matter was considered in 146th, 151st and 152nd meetings held on 24th – 26th June, 2015, 7th – 9th September and 20th October, 2015 respectively. Due procedure has been followed. The letter of Government of Goa dated 08.10.2015 which appears to be the basis of the Environmental Impact Assessment recommendations is as follows:

S.	Queries	Replies
No.		STEETHER SERVICES
1.	The Terms of Reference have expired on 31st May 2015 after tow extensions. The Office Memoranda issued by the MoEF& CC required Terms of Reference to be valid at the time of the consideration of the proposal by the committee.	Hard copy of EIA report for EC was submitted to MoEF& CC on 20.05.2015 for consideration. Based on the same the proposal was included in the agenda of EAC meeting held on 24.06.2015 and 151st meeting held on 7-9 sep 2015.
2.	The baseline data is over three years old. The Office Memoranda issued by the MoEF& CC require the baseline data to be strictly less than three years old at the time of the consideration of the proposal by the Committee.	Due to delay in land acquisition process and finalizing project details. EIA study was completed in the month of December 2014 with baseline data collected during October 2011 to December 2011. Simultaneously, fresh baseline data collection was also carried out during November 2014 to January 2015 by M/s Pragati Labs, Hyderabad.  A comparative study has been

	1		
Item No.			carried out between the old and
04 & 05			new data to study the change in values and presented in EIA
			Report of chapter no. 4 in
August 21,			various sections and the values
2018 DV + A			were within the limit.
	3.	The EIA study and report have	The Study area was considered
		completely ignored the study	as 10km radius from the project
		area lying in the State of	location (section 1.4) which
		Maharashtra, which	includes Maharashtra.
		constitutes a substantial portion of the study area	The data such as environmental
		(about 40 % of the study area	settings, all remote sensing
		is completely ignored) and	maps to study land use etc are
		includes the protected	provided in the EIA report in
		Western Ghats corridor of	annexure IV, IX, X, XI & XII
		Sawantwadi-Dodamarg.	
	4.	The EIA Report has missed out	Present Ground Water Level At
		all the hydro-geological	Mopa is 5-10 Mbgl (Annexure
		features of the pleateau. Not a	IV). To Maintain The Recharge
		single spring out of the scores of perennial springs	Of Ground Water Level After Construction Of The Proposed
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		underneath have also not	radius) and within the plot area.
	:	been studied.	Please refer section no. 5.3.3 of
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	.400	species in the EIA study	data collection for one season
		conducted by the project proponent is therefore less	only. The floral diversity mentioned in the report
		than half the actual number	covered 10 km radius from the
		and exclude most of the rare	project site.
		and endemic species that are	, ,
		found on the plateau,	All the forest patches
		especially in the monsoon	surrounding the sites are
		season. The EIA study also fails	considered for flora & fauna
		to consider the forest patches	study. The airport is coming on
		that exist on the plateau and lakhs of forest trees that will	the top of the hill which is a
		need to be cut for the	open scrub area. Very few trees need to be cut while
		construction of the airport.	constructing the airport,
	6.	The faunal diversity of the	The faunal diversity is
	"	plateau is grossly understated	considered for 10 km radius
		in the EIA report. Scores of	from the project site. The faunal
		species of mammals that are	species sighted while carrying
		resident on the plateau and	out field study are mentioned in

Item No. 04 & 05	surrounding slopes have been missed out, though the plateau abounds is located	the literature also included in the report.
August 21,	adjoining the main ranges of the western Ghats and form an essential part of the	As per the recent report headed
2018 DV + A	Western Ghats. Recent disturbance in neighboring parts of the western Ghats	included in Ecologically
	due to mining, dams, plantations and real estate has increased the ecological value of this plateau multifold,	Ghats.
	which is reflected in the presence of resident herds of bison, and high densities of all other large and small	
	mammals, reptiles, amphibians, birds and other faunal species of the western	
	7. The springs, rich soils, forests and biodiversity of the plateau are the basis of the survival and livelihoods of over 10,000	villages falling in the study area in terms of Households, population, occupational
	persons living in the 6 villages in which the project is proposed, and beyond. The socioeconomic aspects of the	resource, health status, culture, education, festivals are
	plateau, especially the sustenance and ecological services provided to tens of	Annexure XX.
	thousands of persons' have not been considered. The cultural and political impact on the residents who are	
	connected with the plateau on religious, community and economic grounds, have not been considered.	
	8. The EIA study has been carried out without considering the road or train connectivity.  There are no roads or train	proposed in development of airport from NH-17. A bridge
And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	links at present to the plateau and constructing these infrastructures over the steep	various viaducts and other structures are also proposed which will suffice the transport
	slopes of the plateaus will be quite a challenge. The study has conveniently ignored	city & villages.
	these basic requirements, especially in view of the necessity for diversions of reserved forests, which	traffic and transportation arrangements especially at inter-section points of the
	require poor clearances under the Forest conservation Act, 1980 before Environment Clearance is granted.	has been studied and a traffic
[	Similarly, the runway approach lights need to be installed in forest land	was submitted to MoEF& CC on 06.08.2015.

installed in forest land

requiring forest diversion, but No reserve forest area is found no such need is mentioned in within the area allocated to

lands, communities and individual persons who are dependent on the plateau. The study fails to determine the impact of the proposed airport construction on the environment, such as the number of trees that will be cut, the loss of ground water recharge, the loss of bird species and numbers, etc.  The study also fails to consider  mitigation measures is inclu in the EIA report. There will in the EIA report. There will in the EIA report. There will in the EIA report. There will be cause most of the fores area is downside of the hill. Study could not find schedule-I bird species hab Hence impact will be less on faunal diversity.  There will be no impact water recharge as explained point not 4 there will be	oth is hill ith
The runway approach light shall be installed in the beside of runway. The runway situated in the beside of runway. The runway approach lights shall be installed in the beside of runway. The runway situated in the top of the which is a flat terrain of scattered trees and grass which is not a part of resert forest area.  9. The methodology used by the consultant has not attempted to quantify the trees, other flora, fauna, water resource, agricultural lands, communities and individual persons who are dependent on the plateau. The study fails to determine the impact of the proposed airport construction on the environment, such as the number of trees that will be cut, the loss of ground water recharge, the loss of ground water recharge, the loss of bird scription of the proposed airport construction on the environment, such as the number of trees that will be cut, the loss of ground water recharge, the loss of bird scription of the proposed airport construction on the environment, such as the number of trees that will be cut, the loss of ground water recharge, the loss of bird scription of the proposed airport construction on the environment has not attempted to quantify the project water recharge as explaine point no. 4	oth is hill ith
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recharge afforded by the agricultural land located	no
	and
porous surface of the plateau surrounding of project-locati	in
Leading of history and in the history and an income of the history	n.
and the lives and livelihoods of	
tens of thousands of persons	
who live in settlements below	
and sustain themselves with	
spring water, forest produce,	
grazing and agriculture	
provided by the plateau. The	
study therefore completely	
fails to assess the impact of	
tine proposed project on the	
environment, economy and	
Society.	
10. The Public Hearing was held in PH was conducted as per	the
the most stifling conditions, as procedure mentioned in	EIA
is evident from the video Notification 2006 and	its
recordings of the proceedings. amendments.	
Scores of buses were filled up	
with members of the ruling	
political party from remote	
parts of the District not	ŀ
connected with the plateau at	
all, but brought only to disturb	
the proceedings. The locals	
were present in large numbers	
to state their grievances, but	
many did not speak as they	
were intimidated by the large	
number of disruptive	
elements and other persons	
brought to intimidate the	
stakeholders.	
11. No intimation regarding the No project affected per	

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	Public Hearing was given to (PAP) falls in Maharashtra par
Item No.	the villagers living in the study of study area. Public Hearin
04 & 05	area in Maharashtra State. was conducted as per approve
0.200	The villagers living in 40% of Terms of Reference.
August 21,	the study area had not been
2018	allowed to see the EIA Report
DV + A	and had also not been
	intimated about the Public
	Hearing.
	12. The EIA study fails to consider Dr. K Kasturirangan Committee
	the impact of the proposed submitted an extensive repor
	airport on the Western Ghats on Ecologically Sensitive Area
	as a whole, especially the of Western Ghats. The report i
	Northern Section, which is prepared after wide discussion
	completely dependent on the with the stake holders, research
	tiger corridor along which the institutions, Governmen
	plateau lies. The cumulative officials and local NGOs. Afte
	impact of various thorough deliberations, the
	developments such as dams, report was released by
	plantations, mining, etc. on MoEF&CC and the proposed
	this vital corridor has not been project is not included in the
l english	studied by the proponent. The Western Ghats ESA zones. Also
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	proponent has even failed to there is no mention of tige
Sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales of the sales	state the existence of the tiger   corridor in the proposed projec
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Securities of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration of the desiration o	MoEF&CC Guidelines clearly away from the project site.
	require wildlife corridors to be
	listed.
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	entire State and has sufficient   features of the feasibility study
	capacity (already built and carried out by M/s. Louis Berge
*C- 42	operational) for decades to are given in chapter 2 of EIA
	come at current growth rates, report. Project benefits and
	will continue to operate Environmental cost benefi
(Apr. 1977)	whether the Greenfields analysis is given chapter 8 & 9.
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energy provided in	possible, as the tourism industry' which is the main
	source of traffic to the State,
	has exceeded the carrying
	capacity of the State decades
	ago, as reflected in the
	downturn experienced in
	quality and quantity of tourists
	in recent years despite huge
	spending on marketing and
	creation of infrastructure by
	the Government of Goa. The
	l i
	Greenfield airport proposed at
	Mopa has negligible benefits'
	which pale into insignificance
	compared with the
	horrendous costs to the
	environment, economy and
	State at large.

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- 15. The matter has been considered by this Tribunal on several dates. Since one of the Members, who was party to hearing on several dates has retired, we have heard the matter afresh at length. We have been taken through voluminous record and the studies.
- 16. The point made on behalf of the appellants is that in terms of parameters laid down in EIA Notification 2006, information was required to be furnished for 15 km radius around the project site. The information furnished was misleading and incorrect in respect of environmental sensitivity. Information was required to be furnished with reference to 12 parameters. The EIA Report presents a map covering the aerial distance of 10 kms. The Environmental Clearance is thus vitiated by consideration of false and misleading information.
- Referring to the steps in the EIA process as per 2006 notification, it was submitted that at the 'Scoping' stage there has to be strict scrutiny and for radius of 15 km around the project location. It has to be ensured that there are no eco-sensitive areas which will be adversely affected. For this purpose, secondary data has to be collected by the project proponent and such data has to be disclosed. In the present case, it has not been done. The EIA report presents a map covering an aerial distance of 10 km from the proposed project boundary. Presentation of false information must lead to cancellation of environmental clearance. In preparation of detailed EIA report, concealment or misleading statement is required to be checked. In the present case, there is concealment in respect of tree cover on the project site. Trees required to be felled are more than 50,000 while the disclosure by the

Item No. 04 & 05 August 21, 2018 project proponent was that the area had sparse trees. Future Apron Areas will also require felling of trees. There is reserved forest but in the EIA report of the project proponent, it is stated that there was no reserved forest. Survey of India Toposheet No. D43B13 'Open Series Map' shows that there are 14 reserved forests. There are water bodies even as per EIA report but EIA consultants have ignored the presence of 44 perennial spring trees. Contour map showing the slopes and drainage of the study site has not been submitted. Samples have been undertaken in casual manner through random walks and opportunistic Flora and faunal elements are not observations. separately shown, information in the EIA report is contradicted by the independent studies on the subjects of endangered species, wild species and birds. Impact of the project on the people has not been accurately reflected. The agriculture activity has not been fully disclosed. There is no Cumulative Impact Study in the EIA report. Alternatives to the project site have not been explored. Points emerging during the public hearing has been misunderstood and not given due consideration. It is wrongly projected that major issues relate to employment opportunities. The major issues were with regard to the environment such as buffer zones, impact on plantations and agriculture, rain water harvesting, water bodies, wildlife and bio-diversity.

18. It is submitted that public consultation process was in violation of norms of full participation of public with fair consideration of their view point. The appraisal by the Committee has not been there. The same has to be done in a transparent manner after detailed scrutiny of public

August 21, 2018 consultation process. The same is not consisted with the 'Public Trust Doctrine' principle requiring protection of the ecology and the non-renewable natural resources.

Mr. Atmaram N.S. Nadkarni, learned ASG appearing 19. for the MoEF&CC, submitted that the site selection of the area involves a policy decision which must be left to the bonafide decision of the administration. The appellants' society has no link with the allegedly affected people of the area. MoEF&CC has duly considered the socio-economic and environmental issues. The affected 15 habitants are duly rehabilitated. While considering the challenge to the acquisition of land, the High Court of Bombay at Goa in Writ Petition No. 227 of 2013, Shri Hanuman Laxman Aroskarand 7 Ors. Vs. State of Goa, vide order dated 5th December, 2013 have found the requirement for second airport to be genuine. The site is not in the eco-sensitive He submitted that none of the reserve forest in Sawantwadi Forest Division, Maharashtra fall within 15 km radius of Mopa Airport in Maharashtra region and no felling of trees is involved. There is no declared Sawantwadi-Dodamarg Tiger Corridor as claimed. There is no violation of Terms of Reference (TORs) of the project. Validity of the TORs was duly extended. Public hearing was duly conducted. Forest Clearance has been duly taken. Out of 2271 Acres only 0.25 acres [i.e. 1133 sq. mts] is a notified government forest for which the project proponent has already applied for Forest Clearance under the Forest Conservation Act 1980 and has already obtained Stage-I clearance in respect of the same. 24,000 sq. mts is identified as private forests by the Forest Committee(s). However, the same has not been notified.

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Entire hydrology linked argument of the appellants is based and founded on the Report of ACWADAM which was not placed hefore the EAC. EIA is by a recognized expert in the area accredited by the National Accreditation Board for Education and Training (NABET). EMTRC collected the base line data according to the parameters set out in the Terms of Reference. Report relied upon to the effect that rare flower 'Dipcadi concanense' is found at the site of the proposed project, prima facie, appears to be a recent document tailor-made. Public hearing was done as per laid down procedure of screening, scoping and public consultation. The project is essential in public interest and meets the test of sustainable development. amount of Rs. 96.47 crores has already been spent. Land has already been acquired. Major steps have been taken and the project is now listed in the key infrastructural projects. At the end of the arguments, the focus of the appellants grievance is that the site area covered is radius of 10km raised to 15 kms and that there is a gap in the data in studies relied upon by the appellant on the one hand and data projected before the Environmental Appraisal Committee (EAC). If the data presented by the appellants is taken into account, the project was not viable on the anvil of sustainable development principle. There will be huge impact on the inhabitants, on the wildlife, on plants and vegetations which can be avoided by shifting to more suitable site.

- 20. We have given due consideration to the rival submissions.
- 21. Before we consider the core factual issues, we may observe that in our jurisprudence the protection of

August 21, 2018 DV + A environment is fully ingrained. It is not only part of Directive Principles under Article 48A and Fundamental Duties under Article 51A(g) but also inherent in the Fundamental Right under Article 21 of the Constitution. Principles of Sustainable Development, Precautionary Principle, and Intergenerational Equity are parts of our jurisprudence. Needs for development have to be fulfilled consistent with these principles. There can be no development at the cost of environment. Sparse and nonrenewable natural resources have to be protected. The State has to act as trustee for such protection. Section 16(h) of the National Green Tribunal Act, 2010 confers appellate jurisdiction on this Tribunal against grant of environmental clearance. The appellate power is coextensive with the power of the original authority. The appellate authority can set aside, affirm or vary an order under appeal.

22. Having said that, we may also observe that the basic need of the present generation cannot be all together ignored, consistent with the concern for the environment protection. A public project meant for betterment of the living conditions of the people, can be set at naught only on the ground of clear threat to or degradation of environment. These principles are now well settled in judgments of the Hon'ble Supreme Court in Intellectuals Forum Vs. State of A.P¹, Bombay Dyeing & Mfg. Co. Ltd², M.C. Mehta v. Union of India³, Tirupur Dyeing Factory Owners Assn. v. Noyyal River Ayacutdar

^{1 (2006) 3} SCC 549

^{2 (2006) 3} SCC 434

^{3 (2004) 12} SCC 118

Protection Assn⁴, T.N. Godavarman Thirumulpad v. Union of India⁵, Narmada Bachao Andolan v. Union of India⁶.

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23. It will be appropriate to refer to some of the observations in the said Judgments, which are quoted in the Judgment of the Hon'ble Supreme Court in G

#### Sundarrajan Vs. Union of India (2013) 6 SCC 620:

"238......Promotion of development and protection of environment are to be harmonized at the same time:

238.1. In Intellectuals Forum v. State of A.P., it has been held that merely asserting an intention for development will not be enough to sanction the destruction of local ecological resources. What is required to be prescribed is the principle of sustainable development and find a balance between the developmental needs and the environmental degradation.

238.2. In Bombay Dyeing & Mfg. Co. Ltd. (3) v. Bombay Environmental Action Group, while dealing with the concept of sustainable development and planned development vis-à-vis Article 21 of the Constitution, a two-Judge bench has opined thus: (SCC p. 521)

"251. It is often felt that in the process of encouraging development the environment gets sidelined. However, with major threats to the environment, such as climate change, depletion of natural resources, the eutrophication of waste systems and biodiversity and global warming, the need to protect the environment has become a priority. At the same time, it is also necessary to promote development. The harmonization of the two needs has led to the concept of sustainable development, so much so that it has become the most significant and focal point of environmental legislation and judicial decisions relating to the same. Sustainable development, simply put, is a process in which development can be sustained over generations. Brundtland Report defines 'sustainable development' as development that meets the needs of the present generations without compromising the ability of he future generations to meet their own needs. Making the concept of sustainable development operational for public policies raises important challenges that involve complex synergies and trade offs."

238.3. In M.C. Mehta v. Union of India, while stating about sustainable development and the needs of the present without compromising the ability of the future generation to meet their own

^{4 (2009) 9} SCC 737

⁵ (2000) 10 SCC 606 ⁶(2000) 10 SCC 664

August 21, 2018 needs, this Court has expressed thus: (SCC pp. 166-67, para 46)

... The definition of 'sustainable development' which Brundtland gave more than 3 decades back still holds good. The phrase covers the development that meets the needs of the present without compromising the ability of the future generation to meet their own needs. Narmada Bachao Andolan v. Union of India this Court observed that sustainable development means the type or extent of development that can take place and which can be sustained by nature/ecology with or without mitigation. these matters, the required standards now is that the risk of harm to the environment or to human health is to be decided in public interest, according to a 'reasonable person's' test. [See Chairman Barton: The Status of the Precautionary Principle in Australia (Vol. 22, 1998, Harv. Envtt. Law Review, p. 509 at p. 549-A) as referred to in para 28 in A.P. Pollution Control Board v. Prof. M.V. Nayudu."

238.4. In Tirupur Dyeing Factory Owners Assn. v. Noyyal River Ayacutdars Protection Assn., while dealing with the concept of sustainable development, the Court has observed as under (SCC p. 747, para 26).

*"26.* The of 'sustainable concept development' has been explained that it covers the development that meets the needs. It means the development, that can take place and which can be sustained by nature/ecology with or without mitigation. Therefore, in such matters, the required standard is that the risk of harm to the environment or to human health is to be decided in public interest according to a 'reasonable person's' test. The development of the industries, irrigation resources and power projects are necessary to improve employment opportunities and generation of revenue, therefore, cannot be ignored. In such eventuality, a balance has to be struck for the reason that if the activity is allowed to go on, there may be irreparable damage to the environment and thee may be irreparable damage to the economic interest. A similar view has been reiterated by this Court in T.N. Godavarman Thirumulpad (104) v. Union of India and M.C. Mehta v. Union of India.

238.5. In T.N. Godavarman Thirumulpad v. Union of India, this Court observed that: (SCC p. 628, para 35)

"35. It cannot be disputed that no development is possible without some adverse effect on the ecology and environment, and the projects of public utility cannot be abandoned and it is necessary to adjust the interest of the people as well as the necessity to maintain the environment. A balance has to be struck between the two interests. Where the commercial venture or enterprise would bring in results which are far more useful for the people, difficulty of a small number of people has to be bypassed. The comparative hardships have to be balanced and

August 21, 2018 the convenience and benefit to a larger section of the people has to get primacy over comparatively lesser hardship."

238.6. In Narmada Bachao Andolan v. Union of India, a three Judge bench, while dealing with the public projects and policies, has opined that the court does not become the approving authority of such policies. Thereafter, the Bench observed thus: (SCC p. 763, para 234)

"234. .... Normally such decisions are taken by the Government after due care and consideration. In a democracy welfare of the people at large, and no merely of a small section of the society, has to be the concern of a responsible Government."

239. I have referred to the aforesaid pronouncements only to highlight that this Court has emphasized on striking a balance between the ecology and environment on one hand and the projects of public utility on the other. The trend of authorities is that a delicate balance has to be struck between the ecological impact and development."

24. Reference may also be made to Lafarge Umiam Pvt

Vs Union of India &Ors (2011) 7 SCC 338, laying down

as follows:

"139...-In that view of the matter when a particular policy decision was taken to develop a particular project supported by extensive research and study by the experts in the field who prepared the project report religing upon the three successive master plans of the city of Jaipur and the global tender was floated for development of land for tourism adjoining the lake area, entertaining PIL petition on the ground that the area in question is a wetland without substantiating the same in any manner i.e. neither from the revenue record nor any other material, the perception of PIL petitioners without factual basis cannot be allowed to prevail over the decision of the entire groups of experts which was finally accepted by the State Government through the project development report of a State agency which got the detailed project report (DPR) prepared and nothing could be brought to the notice of the court that DPR was not fit to be relied upon or that it was prepared in a clandestine manner. In our considered view unless the detailed project report. Master plan of Jaipur, revenue record indicating the nature of land that the Project was fraught with risk of environmental degradation which could establish with facts and figures that the decision is not in public interest, interference by the Court adopting an overall view smelling foul play at every level of administration is bound to make the governance an impossibility. Therefore, the courts although would be justified in questioning a particular decision if illegality or

August 21, 2018 arbitrariness is writ large on a particular venture, excessive proble or restraint on the activity of a State is bound to derail execution of an administrative decision even though the same might be in pursuance of the policy decision supported by other cogent materials like survey and search by a reliable expert agency of a State after which the state project or private and public partnership project is sought to be given effect to."

### 25. In Jal Mahal Resorts (P) Ltd Vs P.K. Sharma (2014) 8 SCC 804, it was observed:

Universal human dependence on the use of environmental resources for the most basic needs renders it impossible to refrain from altering the environment. As a result, environmental conflicts are ineradicable and environmental protection is always a matter of degree, inescapably requiring choices as to the appropriate level of environmental protection and the risks which are to be regulated. This aspect is recognized by the concept of "sustainable development". It is equally well settled by the decision of this Court in Narmada Bachao Andolan v. Union of India that the environment has different facets and care of the environment is an ongoing process. These concepts rule out the formulation of an across-the-board principle as it would depend on the facts of each case whether diversion in a given case should be permitted or not, barring "no go" areas (whose identification would again depend on undertaking of a due diligence exercise). In such cases, the margin of appreciation doctrine would apply."

26. Coming to the facts of the present case, we note that while considering the challenge to the validity of acquisition of land to the project in question, the Division Bench of Bombay vide Judgment dated 5th December, 2013 in W.P.No. 227 of 2013 observed as follows:

"It is to be noted that the project has been approved by an International Civil Aviation Organizations. It is also included in the Master Plan to build the airport. The Central Government has also approved the said project. The Division Bench of this Court while delivering the judgment has considered the said report which has taken into consideration the expansion of the airport at Dabolim, the passenger inflow, the capacity to handle the passengers and after considering all these aspects, has found the second airport at Mopa to be necessary. In any case, the requirement to have a second airport, the suitability of the land, the area to be needed for the construction of the airport, are all subjects

August 21, 2018 within the domain of experts. When a body of experts after considering all these aspects, has found the second airport to be necessary and the proposed land to be suitable for the construction, it is not permissible for this Court while sitting in its jurisdiction under Article 226, to sit in an appeal over the decisions of the experts. In that view of the matter, we find that the objections have been correctly considered by the Land Acquisition Officer.

13. In so far as the impact of the environmental aspects are concerned the said issue has also been considered by the Division Bench in its earlier judgment and, as such, the petitioners could not have been permitted to again reopen the said issues.

14.In so far as the socioeconomic impact is concerned, the Land Acquisition Officer has found that there are only 14 dwelling houses during his site inspection and has also found that the land acquired is mostly having scattered cashew and jungle trees rocky area and few rice cultivation area. In that view of the matter, the authority has also taken into consideration the socioeconomic impact of the project. In any case, the question regarding socioeconomic impact has already taken care of by the State Government."

We find that the Expert Appraisal Committee had before it point wise reply of the project proponent which we have already quoted above. Therein delay in land acquisition process and collection of fresh baseline data are mentioned It is also mentioned that data for Maharashtra was also considered. Other issues duly explained are hydro-geological features and data with regard to flora and fauna, socio-economic profile, topography, vegetation, observance of due procedure in public hearing, relevance of study with regard to ecosensitive areas of Western Ghats, feasibility of proposed airport in terms of cost benefit analysis as well as environmental cost benefit analysis. EAC also considered the data compiled by various offices. Mere fact that different opinions have been expressed by other experts is not enough to hold that EAC did not apply its mind. The rehabilitation programme was also produced before the

EAC.

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- 28. As regards the requirement of study of 15km radius instead of 10 km, it was explained that as per column 9(III) of Form I of EIA Notification, 2006, requirement of 15 km distance is only with regard to secondary data for parameters as specifically mentioned at the said column. The same has been done as shown at page 8 of the EIA Study.
- 29. We are, thus of the view that it is not a case where the project compromises with the environment, as claimed by the appellants.
- 30. At the same time further safeguards for environment protection need to be incorporated.
- 31. We affirm the impugned order, subject to the following conditions:

#### A. Air Environment

- 1. Total Suspended Matter Particulate: (SPM), Respirable Particulate Matter (RPM) construction phase and un-burnt and Hydro Carbons (HC), Lead (Pb), CO2, SO2, CO2, 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 week 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.
- 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

August 21, 2018 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.

#### B. Water Environment

- 1. Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.
- 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.

#### C. Noise Environment

- 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.
- 2. Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.
- 3. Although ambient noise levels have been found to be within limits at 9 (nine) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient noise levels in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.

#### D. Land Environment

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. Item No.

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- 2. Debris and Muck Management Plan to be prepared and implemented so as to avoid spillage of muck and debris on the slopes.
- 3. Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.
- 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.

#### E. Biological Environment

- 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.
- 2. Efforts be made to plant indigenous species which are tall in size rather than small saplings.
- 3. Concerns have been raised by appellants with regard to plant species 'Dipcadi concanense' which has been claimed to be a threatened plant. This claim of the appellants have been negated by the respondent by producing a documentation of Botanical Survey Western Regional Centre, Pune, Indiå, 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 for 'Dipcadi concanense' Plan/Scheme collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.

#### F. Socio-economic Environment

- 1. Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response to any disasters both man made or natural.
- Although 'Disaster Management Plan' as Annexure-II
  is part of EIA Report under the Sub head 1.2.1National Disasters needs further elaboration
  especially in terms of Emergency Response
  Measures, Rules and Responsibility, Mitigation, etc.

condi	conditions of Environmental Clearance.		
18 + A	In terms of the above order, both the appeals stand		
disposed of accordingly.			
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## F.No. 10-29/2011-IA-III Government of India Ministry of Environment, Forest and Climate Change (IA.III Section)

Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3

Date: 13th March, 2020

To,

Shri R.V. Sheshan, Chief Executive Officer, M/s GMR Goa International Airport Limited, Survey No. 381/3, Mathura One, 1st Floor, NH 17, Porvorim, Goa - 403521

Subject: Development of Greenfield International Airport at Mopa, Goa by M/s GMR Goa International Airport Limited - Addendum to the Environmental Clearance - reg.

Sir,

This has reference to the Environmental Clearance (EC) accorded to the project 'Development of Greenfield International Airport at Mopa', Goa in favour of M/s Directorate of Civil Aviation vide letter F.No. 10-29/2011-IA.III dated 28th October, 2015. The Amendment to the Environmental Clearance was granted to the project vide letter F.No. 10-29/2011-IA.III dated 22nd February, 2018, and the EC was transferred in the name of M/s GMR Goa International Airport Limited (GGIL).

- 2. The Hon'ble Supreme Court vide its judgment dated 29th March, 2019, in Civil Appeal No. 12251 of 2018 in the matter of Hanuman Laxman Aroskar Vs Union of India & Ors. and Civil Appeal No. 1053 of 2019 in the matter of Federation of Rainbow Warriors Vs Union of India & Ors. has inter-alia directed that:
- (i) The EAC shall revisit the recommendations made by it for the grant of an EC, including the conditions which it has formulated, having regard to the specific concerns which have been highlighted in this judgment;
- The EAC shall carry out the exercise under (i) above within a period of one month of the receipt of a certified copy of this order;
- (iii) Until the EAC carries out the fresh exercise as directed above, the EC granted by the MoEFCC on 28 October, 2015 shall remain suspended;
- (iv) Upon reconsidering the matter in terms of the present directions, the EAC, if it allows the construction to proceed will impose such additional conditions which in its expert view will adequately protect the concerns about the terrestrial eco-systems noticed in this judgment. The EAC would be at liberty to lay down appropriate conditions concerning air, water, noise, land, biological and socio economic environment;
- (v) The EAC shall have due regard to the assurance furnished by the concessionaire to this Court that it is willing to adopt and implement necessary safeguards bearing in mind international best practices governing greenfield airports;
- 3. In compliance of the judgment of Hon'ble Supreme Court, the proposal was placed before the Expert Appraisal Committee (Infra-2) in its 40th meeting held on 23rd April, 2019, for appraisal/deliberation in the light of observations of Hon'ble Supreme Court.
- 4. During deliberations the EAC was informed that, M/s Directorate of Civil Aviation, Government of Goa, submitted application the Ministry on 8th March, 2011, for grant of Terms of Reference (ToR). The ToR was finalized by the Expert Appraisal Committee in its meeting held during 11th-12th May, 2011. ToR letter was issued to the project proponent on

Proposal No. IA/GA/MIS/27928/2015

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1st June, 2011, for the preparation of the Environmental Impact Assessment Report. The ToR issued was valid for a period of two years until 31st May, 2013. On 22nd November, 2012, the Government of Goa revised the project boundary by decreasing the project area from 4,500 acres to 2,271 acres and requested Ministry for amendment in ToR. The proposal was considered by the EAC in its meetings held during 28-29 January, 2013, and recommended an amendment to the ToR as requested by the state government and also granted an extension to the validity of the ToR until 31st May, 2014. The amendment in ToR was issued on 19th June, 2013. On 20th October, 2014, the Directorate of Civil Aviation, Government of Goa submitted a draft EIA report to the Goa State Pollution Control Board, requesting it to initiate steps to conduct a public hearing. Public hearing was conducted at the project site on 1st February, 2015. The Government of Goa again requested Ministry for further extension of validity of ToR. The proposal was considered by the EAC in its meetings held during 9th 11th March, 2015, and recommended an extension of the validity of the ToR for another year ending on 31st May, 2015. On 29th May, 2015, the MoEFCC communicated its approval for extending the validity of the ToR until 31st May, 2015. Meanwhile, the State of Goa submitted final EIA report to the MoEFCC on 20th May, 2015, seeking the grant of EC for the project.

The proposal was considered by the EAC, in its meetings 149th meeting held during 24th-26thJune, 2015, 151st meeting held during 7th-9th September, 2015 and 152nd meeting held on 20th October, 2015. The EAC in its meeting held on 20th October, 2015, had recommended the project for grant of Environmental Clearance. As per the recommendation of EAC, the Ministry of Environment, Forest and Climate Change accorded EC for the above-mentioned project on 28th October, 2015, under the provisions of the EIA Notification, 2006 and amendments thereto and circulars issued thereon and subject to the compliance of the certain specific and general conditions as stipulated in the EC letter. Further, amendment to the EC was granted to the project vide letter F.No. 10-29/2011-IA.III dated 22nd February, 2018, and the EC was transferred in the name of M/s GMR Goa International Airport Limited (GGIL).

The grant of the EC was challenged before the Western Zonal Bench of the Hon'ble National Green Tribunal (NGT) by the Federation of Rainbow Warriors. Hanuman Laxman Aroskar also filed an appeal before the Western Zonal Bench of the NGT. On 7th November, 2017, the NGT issued an ad-interim order restraining the cutting or felling of trees in the area designated as the site of the proposed airport. On 22nd November, 2017, the order of restraint was modified on the statement of the Advocate General of Goa that the state shall not cut or fell any trees, nor allows it to take place without valid permission from the lawful authority for a fortnight thereafter in order to enable the appellants to pursue their remedies. On 6th February, 2018, the Deputy Conservator of Forests granted permission for felling 21,703 trees at the airport site. The appellate authority under the Goa, Daman and Diu Preservation of Trees Act 1984 dismissed the appeal on 7th March, 2018.

On 8th March, 2018, the High Court of Judicature at Bombay at its seat at Goa set aside the order of the Deputy Conservator of Forests and remanded the matter to be heard by the Principal Chief Conservator of Forests. On 2nd April 2018, the Principal Chief Conservator of Forests stipulated several conditions for the cutting and the felling of trees at the site of the airport including: (i) enumeration of trees; and (ii) the plantation of ten times the number of trees felled. Upon being moved in a Public Interest Litigation, the High Court by its order dated 25th April, 2018, allowed the exercise of enumeration to be carried out. As a result, 54,676 trees were enumerated, including the 1,548 trees which had been felled earlier in terms of the order dated 6th February, 2018, of the Deputy Conservator of Forests. On 13th January, 2018, the High Court issued final directions in the PIL directing the State of Goa to approach the NGT seeking permission for felling and cutting trees. The state was directed to carry out the cutting and felling of trees only after prior permission was granted by the NGT.

A Miscellaneous Application was filed by the State of Goa before the NGT on 2nd July, 2018, seeking permission for the felling of trees. By its judgment dated 21st August,

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2018, the NGT disposed of both the appeals and the Miscellaneous Application filed by the State of Goa, upholding the EC and imposing additional conditions to safeguard the environment.

During the EAC deliberation held on 23rd April, 2019, the project proponent submitted additional information and plans related to various concerns of the judgment of the Hon'ble Supreme Court dated 29th March, 2019. The additional information included updated Form-1 especially environmental sensitivity information that had been missed out inadvertently in the earlier Form-1. The project proponent and the accredited Consultant M/s Engineers India Limited gave a detailed presentation on the observations raised by the Hon'ble Supreme Court and comments/response in respect of each.

- 5. The EAC observed the following:
- (i) The earlier Form-1 did not give proper disclosure in respect of the details of forests on the land and nearby wet land as well as on the water bodies. The EAC took into account the supplementary report that has been submitted which takes into account the deficiency of disclosure and the same thing has been complied with in the supplementary report. In addition, it is also noticed that the mitigation measures in respect of the depletion of forest cover on the project land and water bodies have been taken into account. As against 54,176 trees, which have been felled on the project site based on earlier approvals given by competent authority, the project proponent is proposing to plant 5,50,000 trees (50,000 trees at the project site, 2,50,000 trees in the nearby villages supervised by the Biodiversity Board and 2,50,000 trees under the supervision of DGCA. This is 1:10 times the number of trees affected as against the standard requirement of 1:3 times number of trees to be planted. The overall supervision of this compliance within the time frame of 5 years would be vested with DGCA. DGCA, however, needs to constitute a local monitoring committee for periodic monitoring of this vital exercise.
- (ii) The EAC noted that neither the project site nor the villages in area under study (primary data source) falls in any Eco-Sensitive Zone (ESZ). The 10 villages in Maharashtra side fall in ESA not ESZ and where the impacts of the project would be minimal. The EAC also observed that the villages in vicinity of the project in the Goa and Maharashtra region are not located in very close proximity. The nearest village is about 4.1 km from the boundary of the project. The EAC also observed that beyond the runway of 3.75 km, the flight operation generally found at an altitude of about 1000 feet and thus there would not be any adverse impact on flora and fauna in the surrounding area of the airport.
- (iii) The EAC observed that a certificate from Chief Wildlife Warden (CWLW) of State through State Government be obtained confirming that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) in the State of Goa and no activity prohibited in the Eco-sensitive zone will be taken up be taken by the project proponent.
- (iv) The EAC further observed that as per the supplementary report and the proposal of the water bodies with respect to observation regarding plateau effect of the land and also laterite surface and the springs, streams and water courses in the project land have been taken into account and appropriate drainage channels have been designed to take care of the water flows into the nearest water courses/rivers, etc.
- (v) Appropriate storm water drainage channeling has been taken into account not only for the pre-monsoon season but also for monsoon and heavy rainfall. The drainage plan should have ratification by the concerned water resources department of Goa. It should be ensured that sustainable water flow in the various channels of watershed in the plateau is maintained. For the present, base level data on flow of water should be collected and used for future monitoring.
- (vi) The EAC observed that in respect of the fauna, the primary data has been collected from one of the nearest village and the secondary data has been collected from ZSI.

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- In respect of the observation of sighting leopard by villager, the authorities have indicated that they do not have any definitive information on the same and this need to be verified/authenticated.
- (vii) It is a well-established fact of silvicultural science and practice that no plantation can replace the natural forest. The kind of biodiversity in any natural forest is almost impossible to be replaced by any kind of plantation activity which at the best can be a mix of various monocultures. We are still far away in our knowledge of replicating the creation of natural forest. Therefore, to this extent, the EAC does not agree with the assessment of project proponent that after cutting of trees and planting of 1:10 trees, richer biodiversity the forest would be created. However, 1:10 plantation activity under expert guidance can to some extent compensate the loss of natural forest.
- (viii) With respect to the various points raised in the public hearing, the EAC observed that the supplementary report has made available point-wise clarifications on the various concerns on the public hearing. However, Hon'ble court shortlisted 14 items of concern in the public hearing. Solution/management plan to all these need to be clearly spelt out in the EMP and implemented in letter and spirit.
- 6. The EAC in its 40th meeting held on 23rd April, 2019, after detailed deliberations/discussion on the submissions and additional information submitted by the project proponent recommends additional environmental safeguards/conditions, over and above the specific and general conditions already included in the EC letter dated 28th October, 2015, besides additional conditions imposed by Hon'ble NGT vide its order dated 21st August, 2018 in Appeal No. 05 of 2018 and Appeal No. 06 of 2018 in the matter of Federation of Rainbow Warriors, Margao Vs. Union of India & Ors.and Hanuman Laxman Aroskar & Anr. Vs Union of India &Ors. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change stipulates additional environmental safeguards/conditions, over and above the specific and general conditions already included in the EC letter dated 28th October, 2015, besides additional conditions imposed by Hon'ble NGT vide its order dated 21st August, 2018 in Appeal No. 05 of 2018 and Appeal No. 06 of 2018 in the matter of Federation of Rainbow Warriors, Margao Vs. Union of India & Ors. and Hanuman Laxman Aroskar & Anr. Vs Union of India & Ors, as under:-

#### I. Statutory compliance:

- (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.
- (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.
- (iii) The project proponent shall obtain necessary permission from the competent authority for drawal of water from Tillari Irrigation Canal.

#### II. Air quality monitoring and preservation:

- (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. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NOx in reference to SO₂ and NOx emissions) within and outside the airport area covering upwind and downwind directions.
- (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.

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- (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
- (iv) The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.
- (v) Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.
- (vi) The soil/construction materials carried by the vehicle should be covered by impervious sheeting to avoid leaking of the dusty materials.

#### III. Water quality monitoring and preservation:

- (i) Appropriate drainage channels need to be designed to take care of the water flow into the nearest water courses/rivers, etc.
- (ii) It should be ensured that sustainable water flow in the various channels of watershed in the plateau is maintained.
- (iii) Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area. Domestic and industrial waste water shall not be allowed to be discharged into the storm water drains and directed to STP for treatment.
- (iv) Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.
- (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.
- (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.
- (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.
- (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.

#### IV. Noise monitoring and prevention:

- (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.
- (ii) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- (iii) Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- (iv) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- (v) During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the

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- boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (vi) Where construction activity is likely to cause noise nuisance to nearby residents, restrict it to only during day time i.e. between 7 am to 6 pm.

#### V. Energy Conservation/climate change measures:

- (i) Energy conservation measures like installation of LED should be integral part of the project design and should be in place before project commissioning.
- (ii) Initiatives such as Green Infrastructure Development program, adoption of less emission intensive technologies, renewable energy program, electrical vehicles and Airport Carbon Accreditation need to be adopted to reduce its impact on climate change and Green House Gas (GHG) emissions as per environmental best practices governing greenfield airports.

#### VI. Waste management:

- (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).
- (ii) The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.
- (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.
- (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.
- (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:
  - a. Trash collected in flight and disposed at the airport including segregation, collection and disposed.
  - b. Tollet 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:

- (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.
- (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.
- (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

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- 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.
- (iv) The proposed 10 times compensatory plantation need to be monitored by the Government of Goa so that the target of planting 5.5 lakh saplings is achieved in a time bound manner, their survival rate is monitored and mortality is replenished. As major chunk of 2.5 lakh of saplings is proposed to be done by the village level Bio Diversity Committees, it is necessary to ensure that people are largely given native species and/or fruit bearing saplings so that they will be able to derive economic benefits from such fruit crops and also such trees will provide better biological environment to birds.
- (v) Top soil shall be separately stored and used in the development of green belt.

#### VIII. Public hearing and Human health issues:

- (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.
- (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.
- (iii) Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- (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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (v) Occupational health surveillance of the workers shall be done on a regular basis.
- IX. Additional Conditions to be incorporated as per Hon'ble NGT's order dated 21st August, 2018:

#### A. Air Environment

- 1. Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase and un-burnt and Hydro Carbons (HC), Lead (Pb), CO₂, SO₂, CO₂, 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 week 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.
- 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.

#### B. Water Environment

 Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.

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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.

#### C. Noise Environment

- 1. It has been proposed that ambient noise levels shall be monitored around the premises of airport, near DG sets and at main entrance/houndary 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.
- Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.
- 3. Although ambient noise levels have been found to be within limits at 9 (nine) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient noise levels in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.

#### D. Land Environment

- 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.
- 2. Debris and Muck Management Plan to be prepared and implemented so as to avoid spillage of muck and debris on the slopes.
- Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.
- Remediation, restoration and compensation needs to be integral part of policy so as to provide adequate relief for any environmental or project related disasters.

#### E. Biological Environment

- 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.
- 2. Efforts be made to plant indigenous species which are tall in size rather than small sablings.
- 3. Concerns have been raised by appellants with regard to plant species 'Dipcadi concanense' which has been claimed to be a threatened plant. This claim of the appellants have been negated by the respondent by producing a documentation of Botanical Survey of India, Western Regional Centre, Pune, Maharashtra titled as "A Note on Occurrence and Distribution of Dipcadi concanense". By invoking Precautionary Principle, we direct the Project Proponent to draw up a Conservancy by Plan/Scheme for 'Dipcadi concanense' in collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.

#### F. Socio-economic Environment

- Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response to any disasters both man made or natural.
- 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.

- 7. All other terms and conditions mentioned in this Ministry's EC letter F.No. 10-29/2011-IA.III dated 28th October, 2015 and subsequent amendment in EC dated 22nd February, 2018 shall remain the same besides additional conditions imposed by Hon'ble NGT vide its order dated 21st August, 2018 in Appeal No. 05 of 2018 and Appeal No. 06 of 2018 in the matter of Federation of Rainbow Warriors, Margao Vs. Union of India & Ors. and Hanuman Laxman Aroskar & Anr. Vs. Union of India & Ors.
- 8. The project proponent shall also comply with the direction(s) given by the Hon'ble Supreme Court in its judgment dated 16th January, 2020 in M.A. No. 965 of 2019 in Civil Appeal No. 12251 of 2018 in the matter of Hanuman Laxman Aroskar Vs Union of India & Ors.
- This issues with the approval of the Competent Authority.

#### Copy to:

- The Principal Secretary, Department of Science, Technology & Environment, 1st Floor, Pandit Deendayal Upadhay Bhavan, Behind Pundalik Devasthan, Near Sanjay School, Porvorim, Bardez - 403 521, Goa.
- The Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bengaluru - 560034, Karnataka.
- The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- The Member Secretary, Goa State Pollution Control Board, Dempo Towers, 1st Floor, EDC Patto Plaza, Panaji - 403001, Goa.
- Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- Guard File/ Record File/ Notice Board.
- 7. MoEF&CC website.

(Dr. Vinod K. Singh) Scientist E

ANNEXURE - B

### GOVERNMENT OF INDIA

OFFICE OF THE
DIRECTOR GENERAL OF CIVIL MYLATICAL
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Reference No.:

жарон лвич. жан AV.20024/17/00-AI, Вијат 27,07,2017

Shri Srikanth Bhandarkar, Head – Commercial and RD, New Udan Bhawan, Opp. Terminal-3, IGI Airport, New Dehi – 110037.

Subject: Request of GCIAL - regarding 'in principle' approval of DGCA for construction of the MOPA Airport.

51.

Reference is invited to your office letter no. GCIAL/DCCA/2016-17/00036 dated 23.03.2017 & (0064) dated 10.07-2017 on the subject.

The competent authority has granted approval for construction of proposed. Greenfield Airport at MOPA, GOA subject to compliance with all relevant provisions of CAR on Aerodrome Design & Operations and ensures obtaining all the requisite statutory clearances before applying for aerodrome license.

It is advised that, progress of the construction in accordance to submitted Master Plan dated 5th July 2017 shall be submitted to this office from time to time.

Yours faithfully,

(D.C. Sharma) Director of Operations (Aero-Stds) for Director General of Civil Aviation

### GOA STATE POLLUTION CONTROL BOARD

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702

Tel/Fax No: 0832-2407700



Email lds:

Chairman, GSPCB, <u>chairman-gspeb.goa@nic.in</u> Member Secretary, GSPCB, <u>ms-gspeb.goa@nic.in</u> Environment Engineer, GSPCB, <u>ce-gspeb.goa@nic.in</u> Scientist, GSPCB, <u>scientist-gspeb.goa@nic.in</u>

Office, goapch@gspeb.in

No.I2/2019-PCB/299315/R0002481

Date:29/01/2020

Renewal of Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981

[To be referred as Water Act & Air Act]

RENEWAL OF CONSENT TO ESTABLISH is hereby granted to:

M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED (Represented by: Mr. Ranganathan Venkata Sheshan) (Red Category)

Mopa, Pernem - Goa

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

- 1. This Renewed Consent to establish is issued in supersession of the earlier Consent Orders issued vide Order No.5/5163/16-PCB/CI-1999 dated 07/09/2016, Amendment No.5/5163/16-PCB/CI-2454 dated 16/01/2017 is valid up to commissioning of the facility/plant or 3 years from the date of issue, whichever is earlier.
- 2. This Renewed Consent to Establish is valid for the establishment of:

	Sr. No	Description	Capacity
	1.	Airport	

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

- (i) The daily quantity of domestic effluent from the facility shall not exceed 5 MLD
- (ii) Sewage Treatment Plant:

The unit shall provide comprehensive sewage treatment plant of 5 MLD capacity consisting of primary/ secondary and/ or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

рН	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20 mg/l
BOD, 3 days, 27° C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10mg/l
NH4-N	Not to exceed	5mg/l
N-total	Not to exceed	10mg/1
Fecal Coliform	Less than	100 MPN/100 ml
Bio-assay test		90% survival of fish after 96hours in 100% effluent

#### (iv) Sewage Disposal:

The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening. There shall not be any discharge outside the unit premises.

(v) A good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

#### (vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board. Biodegradable waste (*i.e.* wet-waste) be treated on-site by composting.

- (vii) The operator shall provide composting facility in a closed shed in the premises.
- (viii) The dry waste has to be segregated and baled and to be disposed to (local authority) /through Goa Waste Management Corporation.

#### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

(i) The unit may install the following equipments and shall be equipped with comprehensive control system as it is warranted with reference to generations of emissions and operate and maintain the same continuously:

Sr. No.	Name of	No of	Capacity	$SO_2$	Particulate
	Equipments/	Installation	_	Kg/Hr	Matter
	Installation				mg/Nm³
1.	D.G. Set	05	2000 KW	15.12	75

(ii) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

(iii) The unit shall take adequate measures for control of noise levels from its own sources within the

premises in respect of noise. The limits are as follows

Category of Area/ Zone	Lim	Limits in dB (A) Leq			
	Day time	Night time			
Industrial Area	75	70			
Commercial Area	65	55			
Residential Area	55	45			
Silence Zone	50	40			

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

#### 5. GENERAL CONDITIONS:

- 1. Trees shall be planted and maintained around the plant in an area at least 4 times the built area of the industry. Green belt development shall be started along with the construction activity.
- 2. The domestic waste water shall be treated in a property designed septic tank and discharged on land for percolation through soak pit of adequate size within the factory premises.
- 3. The applicant shall not change or alter the quantity, the rates of discharge, temperature and the mode of disposal of the effluent without previous written permission of the Board.
- 4. The applicant shall provide facilities for collection of the samples to the Board staff.
- 5. The unit shall discharge the treated effluents preferably on land for irrigation/ gardening/ lawn within their own premises or re-use after suitable treatment.
- 6. Stack heights for a (Diesel generator set(s) shall be as follows:
  - (a) Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + {}^{0.2}\sqrt{KVA}$  where H = total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.

The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below: The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.

- 7. The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 8. The unit shall implement the following Rules and Regulations notified by the Ministry if Environment and Forests, Govt. of India.
  - a) Hazardous And Other Wastes (Management and Transboundary Movement) Amended Rules, 2018;
  - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989;
  - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro organism / Genetically Engineered Organisms or Cell, 1989.
- 9. There shall not be any perceptible odour outside the industrial premises.
- 10. All the Rules and Regulations notified by the Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.

- 11. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 21(4) of the Air (Prevention and Control of Pollution) Act 1981 to review any or all the conditions imposed hereby.
- 12. Any change in the details made after the submission of the application/ after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- 13. This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- 14. The unit should obtain permission from the Forest Department/ Wild Life Board wherever applicable.
- 15. The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Government of Goa and Directorate of Industries, Trade and Commerce, Government of Goa, before submitting an application for Consent to Operate.
- 16. The unit/ generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste Management Amended Rules, 2019. Any activity as defined under BMWM Rules has to obtain a separate Authorization from Goa State Pollution Control Board.
- 17. The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- 18. The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant
- 19. Reliable flow meter shall be installed to maintain record of water consumption / waste water consumption per day. This records so maintained shall be made available to the Board officials whenever required.

- 20. The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board/ reinspections due to non compliances observed by the Board & monitoring carried by the Board.
- 21. The unit shall comply with the conditions stipulated in the judgment passed by the Hon'ble Supreme Court of India dated 16th January, 2020 in the matter M.A. No. 965 of 2019 in Civil Appeal No. 12251 of 2018.

To, M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED C/o. Mr. Ranganathan Venkata Sheshan, Sy. No. 381/1, Mathura One, 1st Floor, Porvorim, Bardez, Goa

Copy to:-

- 1. Accounts Section
- 2. Concerned File
- 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs. 1900 Crores

Challan no.	Amount	Date
	Rs.4,17,400/- (NOC fees)	24/10/2019

SHAMILA DOS Digitally signed by SHAMILA DOS MILAGRES MONTEIRO

MONTEIRO Date: 2020.01.29 15:17:00 +05'30'

(Dr. Shamila Monteiro)
Member Secretary
Goa State Pollution Control Board

Date: 17th January 2019

### GOA STATE POLLUTION CONTROL BOARD

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701,2407702

Tel/Fax No: 0832- 2407700



Email Ids:
Chairman, GSPCB, chairman-gspcb.goa@nic.in
Member Secretary, GSPCB, ms-gspcb.goa@nic.in
Environment Engineer, GSPCB, ee-gspcb.goa@nic.in
Scientist, GSPCB, scientist-gspcb.goa@nic.in

Office, goapcb@gspcb.in

No. 12/2018-PCB/83324/G000547

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

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

**CONSENT TO OPERATE AND AUTHORIZATION** is hereby granted to:

#### M/s. AAKASH MANUFACTURING PRIVATE LIMITED

(Represented by: : Shri. Aakash Nanda Khaunte)
(Green Category)

Survey No. 257, Sub Division Nos. 5,6,7,8,9,10,11,12 Cansarvornem, Mopa Airport Site, Mopa, Pernem – Goa.

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

1. This Consent to operate and Authorization is valid upto <u>13/12/2033</u>.

2. This Consent to operate and Authorization is valid for the manufacture of:

Sr. No.	Description	Quantity
1.	Ready Mix Concrete (RMC plant)	6000 M ³ /Month
	(Temporary plant at Mopa construction-site)	

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

- (i) The daily quantity of domestic effluent from the factory shall not exceed **10 KLD**
- (ii) Domestic Effluent treatment and Disposal:-

The domestic wastewater shall be treated in a properly designed septic-tank and discharged on land for percolation through soak-pit of adequate size within the construction-site.

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

Page 1 of 4

(iv) A good house-keeping shall be maintained within the construction-site. Floor washings, *if any*, shall not be allowed to find way in open areas.

#### (v) Non-Hazardous Solid Waste:

All the Solid wastes arising in the construction-site shall be properly classified and disposed-off to the satisfaction of the Board by:

• Landfill, in case of inert materials, care should be taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.

#### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

(i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments -

Sr. No.	Name of Equipments/	No of Installation	Capacity	SO ₂ Kg/Hr	NO _x	HC	CO	PM
110.	Installation	Instanation		Kg/Hr	(g/kw-hr)			
1.	D.G. set	01	500 KVA	2.88	9.2	1.3	3.5	0.3

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

Sr. No	Chimney attached to	Height
1.	D.G. set (500 KVA)	03 mtrs

(iii) The unit shall observe the following standards:

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. (for D.G. set of 500 KVA)	80 ltrs/h

- (iv) The Stack Port Hole is to be designed as per CPCB guidelines.
- (v) The unit should carry out emission monitoring from the stacks connected to D.G. set once in six-months from a laboratory recognized by the Ministry of Environment, Forest and Climate Change (MoEF & CC) under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vi) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise, as per applicable zones, referred below –

Category of Area/ Zone	Limits in dB (A) Leq		
	Day time	Night time	
Industrial Area	75	70	
Residential Area	55	45	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

### 5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES 2016:</u>

(i) The unit is hereby granted authorization for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1.	5.1	Used/Spent oil	40 ltrs/Month	To recycler registered with CPCB and
				having valid authorization of SPCB
2.	5.2	Waste/Residues	1kg/Month	

- (ii) The authorizer/ unit shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the 'authorized person' to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The occupier shall maintain a manifest system as per Rule-19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (vii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (viii) Under no circumstances the hazardous waste shall be disposed to unauthorized facilities.
- (ix) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous Wastes (*Management & Transboundry Movement*) Amended Rules 2018.
- (x) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCMMS system.
- (xi) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- (xii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.

#### **6 GENERAL CONDITIONS:**

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent / emission or hazardous wastes or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent, air emissions and hazardous wastes to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.

- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.
- (v) This Consent to Operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The industry shall bear the cost of analysis / monitoring in case of complaints received by the Board reinspections due to non compliances observed by the Board & monitoring carried by the Board.
- (x) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2011, if applicable.
- (xi) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (Management) Rules 2018, if applicable.
- (xii) The unit shall comply to the Guidelines and dust mitigation measures in handling Construction material and Demolition waste issued by Central Pollution Control Board (CPCB) and are placed on Board website <a href="https://www.goaspcb.gov.in">www.goaspcb.gov.in</a>

To.

#### M/s. AAKASH MANUFACTURING PRIVATE LIMITED,

(Represented by: Shri. Aakash Nanda Khaunte),

H. No. 503, Gurudatta Apartment, Panaji, Tiswadi -Goa

Copy to:-

1 Accounts Section

2 Concerned File

3 Guard File

Received Consent fee of: The capital Investment of the unit is Rs. 2,81,40,000/-

Challan no.	Amount	Date
519553	Rs. 44,000/- (Air & Water Consent fees)	06/09/2018
519693	Rs. 22,000/- (Air & Water Consent fees)	11/12/2018
519661	Rs. 10,400/- ( NOC Fees )	15/11/2018

MOHAN RATNAKAR GIRAP Digitally signed by MOHAN RATNAKAR GIRAP Date: 2019,01,17 18:15:22 +05'30'

(Dr. Mohan R. Girap) Scientist 'C'

For Goa State Pollution Control Board

# GOASTATE POLLUTION CONTROL BOARD गाँच राज्य प्रदुशण नियंत्रण पंडळ

(An ISO 9001-2008 Certified Board)

Phone Nos : 91-832-2438567, 2438528

2438563, 2438550

Tel / Fax No.: 0832-2438528



Email id's:

Member Secretary, GSPCB - ms-gspcb.goa@nic.in Environment Engineer, GSPCB - ee-gspcb.goa@nic.in Scientist, GSPCB - scientist-gspcb.goa@nic.in Asst. Env Engineer, GSPCB - aee-gspcb.goa@nic.in Asst. Law Officer, GSPCB - alo-gspcb.goa@nic.in

5/5163/16-PCB/CJ-3406

Date: 10 /11/2017

Consent to Establish under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 [To be referred as Water Act, Air Act respectively]

Consent to Establish is hereby granted to:

### GMR GOA INTERNATIONAL AIRPORT LTD

Represented by Ranganathan Ven Kata Sheshan (Red Category) (Expansion of the unit)

#### Mopa Pernem, North Goa

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

The Consent to Establish is valid upto commissioning of the unit or 5 years which ever is 1.

2. This Consent to Establish is valid for setting up of:

	to setting up of:	
Sr. No	Description	
1	B	Quantity Quantity
ı,	Asphalt mix plant	
		160 m ³ /hr

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

(i) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

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#### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

(i) The unit may install the following equipments and shall be equipped with comprehensive control system as it is warranted with reference to generations of emissions and operate and maintain the same continuosly:

 Sr. No.	Name of Equipments/	No of Installation	Capacity	SO ₂ Kg/Hr	NOx	HC	CO	PM
	Installation	mountarion		Kg/11t		(g/kv	v-hr)	
1.	Asphalt mix	1	160 m³/hr		9.2	1.3	3.5	0.3
	plant							

(ii) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

(iii) The unit shall take adequate measures for control of noise levels from its own sources

within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leg							
	Day time	Night time						
Industrial Area	75	70						
Commercial Area	65	55						
Residential Area	55	45						
Silence Zone	50	40						

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

- (iv)Unit shall provide wind breaking walls/barriers all around the premises
- (v) The unit should provide metalled road within the premises
- (vi)The unit should provide dust containment and suppression system for the equipment and the conveyors should be covered with hoods
- (vii) The unit shall carry out regular cleaning and wetting of the ground within the plot to suppress dust pollution.
- (viii) The unit shall maintain garland drains along the periphery of the unit to avoid siltation of the dust into seasonal streams/agriculture lands, etc
- (ix)The unit shall maintain fast growing trees along the periphery / compound wall of the plot to arrest the dust.

#### 5. GENERAL CONDITIONS:

1. Trees shall be planted and maintained around the plant in an area at least 4 times the built area of the industry. Green belt development shall be started along with the construction activity.

- 2. The applicant shall not change or alter the quantity, the rates of discharge, temperature and the mode of disposal of the effluent without previous written permission of the Board.
- 3. The applicant shall provide facilities for collection of the samples to the Board staff.
- 4. The industry shall discharge the treated effluents preferably on land for irrigation/gardening/lawn within their own premises or re-use after suitable treatment.
- 5. Stack heights for a (Diesel generator set(s) shall be as follows:
  - (a) Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula  $H = h + {}^{\circ}\sqrt[3]{KVA}$  where H = total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.
  - (b) The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:

The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.

- 6. The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 7. All solid waste arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by:
  - i. Land fill in case of inert material;
  - ii. Controlled incineration wherever possible in case of organic combustible material:
  - iii. Vermiculature composting in case of bio-degradable, chemically active/ hazardous solid waste; care should be taken to ensure that the material does not give rise to leachate which may percolate into ground water or be carried away with storm run-off.
- 8. The industry shall implement the following Rules and Regulations notified by the Ministry if Environment and Forests, Govt. of India.
  - a) Hazardous Wastes (Management) Rules, 2016;
  - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989;
  - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro organism / Genetically Engineered Organisms or Cell, 1989.

Joseph

- 9. There shall not be any perceptible odour outside the industrial premises.
- 10. All the Rules and Regulations notified by the Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- 11. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 21(4) of the Air (Prevention and Control of Pollution) Act 1981 to review any or all the conditions imposed hereby.
- 12. Any change in the details made after the submission of the application/ after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- 13. This Consent to Establish is granted without any prejudice to any other permissions(s) required under any laws, bye laws and regulations in force.
- 14. The unit should obtain permission from the Forest Department/ Wild Life Board wherever applicable.
- 15. The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Government of Goa and Directorate of Industries, Trade and Commerce, Government of Goa, before submitting an application for Consent to Operate.
- 16. The unit/ generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste (Management & Handling) Rules, 1998. Any activity as defined under BMW (M&H) Rules has to obtain a separate Authorization from Goa State Pollution Control Board.
- 17. The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- 18. The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant
- 19. Reliable flow meter shall be installed to maintain record of water consumption / waste water consumption per day. This records so maintained shall be made available to the Board officials whenever required.

M/s GMR GOA INTERNATIONAL AIRPORT LTD Sy. No. 381/3, Mathura One, First Floor, NH17, Porvorim - Gon 403521

Copy to: "

1 Accounts Section

Received Consent fee of: The capital Investment of the unit is Rs. 200 Lakhs 10,400/-Challan no. 3252 Verified by

Typed by

Affend!r-9

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> (Dir. Shamila Monteire) Myralici Secretary

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### GOA STATE POLLUTION CONTROL BOARD

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702 Tel/Fax No: 0832- 2407700



Email Ids:
Chairman, GSPCB, chairman-gspcb.goa@nic.in
Member Secretary, GSPCB, ms-gspcb.goa@nic.in
Environment Engineer, GSPCB, ee-gspcb.goa@nic.in
Scientist, GSPCB, scientist-gspcb.goa@nic.in
Office, goapcb@gspcb.in

#### FORM 1II (See rule 10) AUTHORIZATION

(Authorization for operating a facility for generation, collection, reception, treatment, storage, transport and disposal of bio-medical wastes)

**Ref: 1)** Application of M/sMegawide Construction DMCC - First Aid Centre at Mopa Airport Construction SiteNo.525241dated:06/05/2020.

- 1. File number of Authorization No.19/2020-PCB/525241/BMW000320 4dated: 05-06-2020
- 2. Mr.Prabhat Satapathy (Project Director), Mobile No.7028637844an occupier of the facility M/s Megawide Construction DMCC First Aid Centre at Mopa Airport Construction Site Located atMopa, Pernem, Goais hereby granted and Authorization for;

Activity	Please tick
Generation, segregation	✓
Collection,	N/A
Storage	✓
packaging	N/A
Reception	N/A
Transportation	N/A
Treatment or processing or conversion	Ý
Recycling	N/A
Disposal or destruction	✓
Re-use	N/A
offering for sale, transfer	N/A
Any other form of handling	N/A

3. Mr.Prabhat Satapathy, is hereby authorized for handling of biomedical waste as per the

(i)	Number of beds/Patients of HCF:	10 Patients per day
(ii)	Number healthcare facilities covered by CBMWTF:	N/A
(iii)	Installed treatment and disposal capacity:	As given below
(iv)	Area or distance covered by CBMWTF:	N/A
(v)	Quantity of Biomedical waste handled, treated or disposed:	N/A

Category	Type of Waste	Quantity generated/co llected	Method of treatment and disposal.
	(a) Human Anatomical Waste:	Nil	NA
	(b)Animal Anatomical Waste:	Nil	NA
Yellow	(c) Soiled Waste:	0.01kgs/day	Pretreated by autoclave and to be disposed in Deep Burial pit authorized by the GSPCB at M/s Goa Health Care (Clinic) OR to be disposed through GSPCB authorized agency
	(d) Expired or Discarded Medicines:	Nil	NA
	(e) Chemical Solid Waste:	Nil	NA
	(f) Chemical Liquid Waste:	Nil	NA
	(g) Discarded linen, mattresses, Beddings contaminated with blood or body fluid.	Nil	NA
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	Nil	NA
Red	Contaminated Waste (Recyclable);	0.05Kgs/day	Autoclaving followed by shredding Treated waste to be sent to registered or authorized recyclersthrough M/s Goa Health Care Clinic having valid consent to operate from the GSPCB OR to be disposed through GSPCB authorized agency.  Plastic waste should not be sent to landfill sites.
White	Waste sharps including	0.05Kgs/day	Autoclaving or Dry Heat Sterilization
(Transluc ent)	Metals:		followed by shredding or mutilation and encapsulation in cement concrete or may be sent for final disposal to

			iron foundries having valid consent to operate from the respective State Pollution Control Boards OR to be disposed through GSPCB authorized agency
Blue	Glassware:	0.01Kgs/day	The waste glassware has to be sterilized or disinfected (either by autoclaving or microwaving or hydroclaving) followed by soaking and washing with detergent prior sending it for recycling.  The residual chemicals in the bottles
			should be collected as chemical waste in yellow bagags as yellow (e) category waste and disposed accordingly.
			The wash water after soaking and washing has to be treated as per yellow (f) category disposal.
			If the Broken glass cannot be given/or sold for recycling it can be disposed in sharps pit.
			Glass vials with positive controls should be pre-treated and disposed as yellow(h) waste.
	Metallic Body Implants	Nil	NA

^{*}Note: The disposal method should be in compliance to the Biomedical Waste Rules Sch II & **CPCB guidelines for management of Healthcare waste as per Bio Medical Waste Rules 2016 as amended 2018.

- 4. This Authorizationshall be valid for 10 Years from the date of issue.
- 5. This Authorization is subject to the conditions stated below and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986 as amended.

#### Terms and conditions of Authorization

1. The Authorization shall comply with the provisions of the Environment (Protection) Act, 1986 as amended and the rules made there under.

- 2. The Authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority.
- 3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his Authorization.
- 5. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority.
- 6. The designated Occupier is required to satisfactorily Comply with the Bio Medical Waste Rules 2016 as amended in 2018, particularly with Rule 4, Rule 7 and Rule 8 including details of validation Tests along with with Schedule I and II and submit a self declaration of compliance in the form of biomedical report.
- 7. Compliance to the requirements of the Bio Medical Waste Rules 2016, and amendments as applicable there off should be strictly adhered to.
- 8. Waste should be stored in Puncture proof and leak proof boxes or containers as defined in Sch I.
- 9. Use of chlorinated plastic bags (excluding blood bags) and gloves should be strictly prohibited.
- 10. For discharge into public sewers with terminal facilities, the general standards as notified under the Environment (Protection) Act, 1986 (29 of 1986) shall be applicable.
- 11. Waste, if transported to an external Authorized party for treatment and disposal should be done so in appropriate sealed and labelled containers. The same will be ensured by the generator availing the said service till end of disposal.

- 12. Non-bedded occupiers shall dispose infectious liquid wastes only after treatment by disinfection as per Schedule II (6) of the principal rules.".
- 13. The Occupier of Health care Facility (HCF) should submit an annual report in Form IV on or before 30th June.
- 14. Application for renewal should be three months prior to expiry of the said Authorization.
- 15. The Occupier is required to ensure that there is no discharge or emissions of Mercury and the solid waste containing this metal due to breakage of thermometers, pressure and other measuring equipment in your facility. The Mercury spillages or losses if any should be collected and stored in a safe manner and sent back to the manufacturer. It should be ensured that spilled Mercury does not become part of Bio-medical or other solid waste generated from your facility. Waste containing 50 ppm or more of Mercury is included in Schedule II of Hazardous Waste (Management and Handling) Rules, and the same has to be disposed in compliance of the Hazardous Waste Rules.
- 16. In case of all bedded health care units, maintain and update on day to day basis the biomedical waste management register and display the monthly record on its website according to the Bio-medical waste generated in terms of category and colour coding as specified in Schedule I'.
- 17. Bedded heath care facilities has to ensure uploading annual records of the biomedical waste generate on its website.

Copy to:-

1 Accounts Section

2 Concerned File

3 Guard File

#### Received BMW Authorization fee of:

Challan no.	Amount	Date
N127201129562147	Rs 10,000/-	06/05/2020

SHAMILA DOS Digitally signed by SHAMILA DOS MILAGRES MONTEIRO Date: 2020.06.05
14:37:28 +05'30'

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

### GOA STATE POLLUTION CONTROL BOARD

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702

Tel/Fax No: 0832- 2407700



Chairman, GSPCB, <u>chairman-gspcb.goa@nic.in</u> Member Secretary, GSPCB, <u>ms-gspcb.goa@nic.in</u>

Environment Engineer, GSPCB, <u>ee-gspcb.goa@nic.in</u> Scientist, GSPCB, <u>scientist-gspcb.goa@nic.in</u>

Office, goapcb@gspcb.in

No.12/2020-PCB/510173/O0004024

Date:03 /06/2020

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act,

CONSENT TO OPERATE AND AUTHORISATION is hereby granted to:

### M/S. MEGAWIDE CONSTRUCTION DMCC (TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)

(Represented by: Shri. Prabhat Satapathy)
(Orange Category)

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

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

- 1. This Consent to operate is valid upto 19/03/2030
- 2. This Renewed Consent to operate is valid for the activity of:

Sr. No	Product	Quantity
1.	Hot Mix	2 Nos (160 TPH & 120 TPH)
2.	Wet Mix Macadam Plants	2 Nos (200 TPH each)
3.	Screening & Crushing Plants	4 Nos (250 TPH each)

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

- (i) The daily quantity of industrial effluent from the factory shall not exceed NIL
- (ii) The daily quantity of domestic effluent from the factory shall not exceed 2.0 KLD

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

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

- (iv) The unit should empty septic tank and soak pit periodically through night soil tankers for safe disposal and submit the copies of the receipts to the Board on regular basis.
- (v) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

#### (vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board.

The total quantity shall be segregated and treated as follows:

#### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT

(i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No.			Capacity	SO ₂	$NO_{x}$	HC	СО	PM
	Equipments/	Installatio		Kg/Hr		(g/kw-	-hr)	
	Installation	n				(6/11/1		
1.	DG Set	1	500 KVA	2.1	9.2	1.3	3.5	0.3
2.	DG Set	1	125 KVA	0.525	9.2	1.3	3.5	0.3

Sr.	Name of	No of	Capacity	SO2	Particulate Matter
No.	Equipments/ Installation	Installation		Kg/Hr	Mg/Nm3
1.	Hot mix plant	01	160 TPH	1.62	150
2.	Hot mix plant	01	120 TPH	1.62	150

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

Sr. No	Chimney attached to	Height
1.	DG Set (500 KVA)	20 Mtrs
2.	DG Set (125 KVA)	20 Mtrs
3.	Hot mix plant	20 Mtrs each

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

Sr. No	Type of fuel	Quantity /hr
1	H.S.D (for DG Set (500 KVA)	100 litres
2.	H.S.D (for DG Set (125 KVA)	25 litres

- (iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring –Material & methodology for isokinetic sampling.
- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vi) The unit should carry out emission monitoring from the stacks once in year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board by the 15th of subsequent month.

(vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq		
	Day time	Night time	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

## 5. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) AMENDED RULES 2018:

(i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr.	Category	Type of waste	Quantity	Mode of disposal
No.				
1.	5.1	Used Spent Oil	1000	To recycler registered with CPCB
			Lit/Annum	and having valid authorization of
				SPCB

- (ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.

- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous and other Waste (Management & Transboundary Movement) Amended Rules 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- (xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- (xiv) The unit shall submit online annual returns in prescribed format on or before 30th June of evry year.

#### 5 **GENERAL CONDITIONS:**

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent & air emissions to the Board staff.

- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.
- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) Reliable flow meter shall be installed to maintain record of water consumption/waste water generation per day. The records so maintained shall be made available to the Board officials whenever required.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board/ Re-inspections due to non compliances observed by the Board and monitoring carried by the Board.
- (vii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (viii) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001, if applicable.
- (ix) The unit shall submit returns for disposal of e waste under the E- Waste Management Rules 2018, if applicable.
- (x) The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management amended Rules 2018, if applicable.

(xi) The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website goaspcb.gov.in"

To,
M/S. TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT
(M/S. MEGAWIDE CONSTRUCTION DMCC)
C/o. Shri. Prabhat Satapathy
P.O Box No I, Greenfield International Airport,
Mopa, Nagzar, Pernem, Goa, 403512

Copy to:- 1. Accounts Section

- 2. Concerned File
- 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs.8,55,00,000/-

NEFT Ref:	Amount	Date
N118201122625705	Rs. 1,92,800/- (Air, Water & HW Consent fees)	27/04/2020

SANJEEV SHASHIKANT Digitally signed by SANJEEV JOGLEKAR Date: 2020.06.03 23:46:03 +05:30*

(Sanjeev Joglekar) Environmental Engineer Goa State Pollution Control Board

URIGINAL		Government of Goa		P.W.D. 585e
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### FORM - III

[See Rule 3(6)(2)]

Certificate of Registration of an existing well and permission for it's continuous use in the Scheduled area under 5(4) of the Goa Ground Water Regulation Act, 2002 (Goa Act 1 of 2002).

Registrant Details

Name of the Applicant

Megawide Construction DMCC Full Address Post Bag No. 1, Green Field Airport, Mopa, Pernem, Goa,

403512

Location of the Well

Survey & Sub Div / PT & Chalta Number 261/0 Name of Land

Math Village Panchayat Cansarvornem Taluka & District Pernem - North

Details of the Well

W. J. Type of Well Bore well

Diameter / Size of the well (mts) 0.15 Depth of the well (mts) 84.00 Month & year of construction Nov / 2018

Month & year of commissioning Dec / 2018

Method of Water Drawal

Device used for lifting the ground water Pump.

Type of pump Submersible

Horse Power (HP) 3.00 Pump Capacity (LPM) 150.00

E.D. Power Supply Connection No.

Details of Water Usage

Purpose of usage Commercial

Number of hours pumping per day 8

Quantity of ground water drawn per day (lts) 24,000

No. of months of use per year 12

Registration Number N 3269 / R 0

Certificate Validity 13 / Mar / 2019 to 12 / Mar / 2024

This is subject to conditions specified overleaf.

a. Executive Engineer ... :Works Division 4. Water Resources Department

Potvorim-Goa



Sinchai Bhawan, Near Police Station, Alto Porvorim, Bardez Goa. (0832) 2412047 | www.goawrd.gov.in



#### This is subject to the following conditions:

- 1. Validity period of registration is 5 (five) years from date of issue.
- 2. The permit holder should not deviate in any way from the specifications regarding well, pump etc. mentioned above without pre-intimation and approval of the Ground Water Officer.
- The Ground Water Officer or any persons duly authorized by him shall have the right to enter and inspect the place
  with such assistance as may be necessary to satisfy himself whether the conditions specified in the permit are being
  complied with.
- 4. The drawal of ground water under this license should not interfere with the normal activities of the locality nor should it cause any traffic hazard.
- 5. The structure is registered for Commercial purpose. Charge for the Water Consumption will be as per the notification issued by the Government.
- 6. This permit will be withdrawn without prejudice to the Government, if the conditions of the permit are violated.
- 7. Suitability of water before use for human/animal consumption, be got approved from health authority.

The Assistant Engruer SubiTII work Div J. wipo Pornum.

a) The Assistant Engruer subder & W.D. L. Parvarin

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### Government of Goa

P.W.D. 585e

### WATER RESOURCES DEPARTMENT

	RECEIPT FOR PA	YMENTTO GO	VERNME	NT	No.€	干
BOOK No. 358	R	ECEIPT	Place	Poguz	SUM	
Division Sub-Division				22/03		
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### FORM - III [See Rule 3(6)(2)]

Certificate of Registration of an existing well and permission for it's continuous use in the Scheduled area under 5(4) of the Goa Ground Water Regulation Act, 2002 (Goa Act 1 of 2002).

#### Registrant Details

Name of the Applicant

Megawide Construction DMCC

Full Address:

Post Bag No. 1, Green Field Airport, Mopa, Pernem, Goa,

403512

Location of the Well

Survey & Sub Div / PT & Chalta Number

260/1

Name of Land

Math

Village Panchayat

Cansaryomem

Taluka & District

Pernem - North

Details of the Well

Type of Well

Bore well

Diameter / Size of the well (mts)

0.15

Depth of the well (mts)

70.00

Month & year of construction

Nov / 2018

Month & year of commissioning

Dec / 2018

Method of Water Drawal

Device used for lifting the ground water

Pump

Type of pump

Submersible

Horse Power (HP)

3.00

Pump Capacity (LPM)

150.00

E.D. Power Supply Connection No.

### Details of Water Usage

Purpose of usage

Commercial

Number of hours pumping per day

Quantity of ground water drawn per day (Its)

24,000

No. of months of use per year

12

Registration Number

N 3270 / R 0

Certificate Validity

This is subject to conditions specified overleaf.

13 / Mar / 2019 to 12 / Mar / 2024

. Trecutive Enginees ... Works Division: 600 Water Resources Department Porvorim-Gon

Sinchai Bhawan, Near Police Station, Alto Porvorim, Bardez Goa. (0832) 2412047 | www.goawrd.gov.in



#### This is subject to the following conditions:

- 1. Validity period of registration is 5 (five) years from date of issue.
- 2. The permit holder should not deviate in any way from the specifications regarding well, pump etc. mentioned above without pre-intimation and approval of the Ground Water Officer.
- 3. The Ground Water Officer or any persons duly authorized by him shall have the right to enter and inspect the place with such assistance as may be necessary to satisfy himself whether the conditions specified in the permit are being complied with.
- 4. The drawal of ground water under this license should not interfere with the normal activities of the locality nor should it cause any traffic hazard.
- 5. The structure is registered for Commercial jumpose. Charge for the Water Consumption will be as per the notification issued by the Government.
- 6. This permit will be withdrawn without prejudice to the Government, if the conditions of the permit are violated.
- 7. Suitability of water before use for human/animal consumption, he got approved from health authority.

e) The Asst Enginer subs Binson & w. D. 2 WRD Pernen a) The Asst Enginer subs Binson I w. D. 2 WRD Parvosan

# GOA STATE POLLUTION CONTROL BOARD

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos.: 0832-2407700

2407701, 2407702

2407703

Tel/Fax No.: 0832-2407700



Emoil lds:

Chairman, GSPCB: chairman-gspcb.goa@nic.in Member Secretary GSPCB: ms-gspcb.goa@nic.in Environment Engineer, GSPCB: ee-gspcb.goa.nic.in Scientist, GSPCB: scientist-gspcb.goa@nic.in

Office: goapcb@gspcb.in

No.12/2019-PCB/299315/R0002481/FLM/18670/Amde - 98

Date: 02/06/2020

### **AMENDMENT**

Sub: Partial modification in the Renewal of Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6 (1) of the Hazardous and other Waste (Management and Transboundry Movement) Amended Rules 2018 to M/s. GMR Goa International Airport Limited

Ref:-1) Renewal of Consent to Establish under the Water and the Air Aet and Authorization of the Hazardous Wastes order no. No.12/2019-PCB/299315/R0002481 dated 29/01/2020.

In partial modification in the Renewal of Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6(1) of the Hazardous and Other Waste (Management and Transboundry Movement) amended Rules 2018 issued to M/s. GMR Goa International Airport Limited, Serial no. 3 (i), 3(ii), 5 (13) of the said order referred at (1) above may be read as follows and Serial No. 6 of the said order referred at (1) above is included in the Consent:-

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

(i) The daily quantity of domestic effluent from the facility during Phase -1 (4.4MPPA) shall not exceed  $\frac{560 \text{ KLD}}{100 \text{ KLD}}$ 

### (ii) Sewage Treatment Plant:

The unit shall provide comprehensive sewage treatment plant for Phase – I (4.4 MPPA) of 625 KLD capacity consisting of primary/ secondary and/ or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

pН	Between	5.5 & 9.0
Suspended Solids	Not to exceed	Not more than 20 mg/l
BOD, 3 days, 27° C	Not to exceed	10 mg/j
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10 mg/l
NH4-N	Not to exceed	5 mg/l
N-total	Not to exceed	10 mg/)
Fecal Coliform	Less than	100 MPN/100 ml

This Consent to Establish is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force and this Consent to Establish is confined to matters arising out of the Air Act and Water Act only,

### CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) 6.

The unit is hereby granted authorization to operate a facility for collection, storage and (i)

disposal of h	azardous:W	astes as specified bel Type of waste	Quantity	Mode of disposal  To recycler registered with CPCB
1 x	5.1	Used/Spent Oil	5,000ltrs/ann um	and having valid authorization of SPCB
2,	5.2	Waste or Residuals containing Oil	2000 Kgs/annum	Management Ltd, at Taloja lor incineration
3.	33.1	Empty Containers contaminated with Hazardous Chemicals/wastes	4,000 Kgs/annum	To be sent to decontamination / recycling facilities having authorisation and consent of the Board

- The authorizer shall comply with the provisions of the Environment (Protection) Act, 1986 (ii) and the rule made thereunder.
- The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control (iii) Board.
- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization. (iv)
- It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility. (v)
- The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water. (vi)
- The occupier shall maintain a manifest system as per Rule 21 (1) for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit. (vii)
- The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board. (viii)
- Under no circumstances the hazardous waste shall be disposed to unauthorized facilities.
- The occupier shall maintain the records for collection, storage and disposal of hazardous (ix)waste in Form 3 of as per Hazardous and other Wastes (Management & Transboundary (x) Movement) amended Rules 2018.

- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCMMS system.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- (xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- (xiv) The unit shall submit annual returns in prescribed format to the Board for financial year by 30th June of every year

To,
M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED
C/o. Mr. Ranganathan Venkata Sheshan,
Sy.No. 381/1, Mathura One,
1st Floor, Porvorim, Bardez - Goa

Typed by	Checked by
Loin	Nachhadessa

Received Amendment fee of:

110001100		
NEFT NO.	Amount	Date
000262289875	Rs 3,000/-	30/05/2020

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

### GOASTATE POLLUTION CONTROL BOARD गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos.: 0832-2407700

2407701, 2407702

2407703

Tel/Fax No. : 0832-2407700



Email kfg:

Chairman, GSPCB: chairman-gepcb.gos⊛nic.in Momber Secretary GSPCB: ms-gapeb.goa⊛nic.in Environment Engineer, GSPCB: eo-gepcb.goa.nic.in Setentiat, GSPCB: sclentiat-gepcb.gox⊛nic.in

Office: goapch@gspcb.in

No.12/2019-PCB/299315/R0002481/FLM/11792/Amde-154

### Date: /10/2020 02/11/2020

#### AMENDMENT

Sub: Partial modification in the Renewal of Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6 (1) of the Hazardous and other Waste (Management and Transboundry Movement) Amended Rules 2018 to M/s. GMR Goa International Airport Limited

Ref.-1) Renewal of Consent to Establish under the Water and the Air Act and Authorization of the Hazardous Wastes order no. No.12/2019-PCB/299315/R0002481 dated 29/01/2020.

2) Amendment No. 12/2019-PCB/299315/R0002481/FLM/18670/Amde-98 dated 02/06/2020.

In partial modification in the Renewal of Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6(1) of the Hazardous and other Waste (Management and Transboundry Movement) amended Rules 2018 issued to M/s. GMR Goa International Airport Limited, Serial no. 3 (ix), (x), (xi) of the said order referred at (1) above is included in the Consent:-

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

(ix) Sewage Treatment Plant (during the construction phase):

The unit shall treat domestic effluent generated during construction phase (from the labor colony, canteen and offices) in temporary sewage treatment plant of 225 KLD capacity consisting of primary/ secondary and/ or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

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(x) Sewage Disposal:

The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening. There shall not be any discharge outside the unit premises.

(xi) The unit shall at his own cost get the effluent samples collected both before and after treatment and analyse, every month the parameters indicated above from a laboratory

recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and rules there under and results shall be uploaded on the Board's portal regularly.

To,
M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED
C/o. Mr. Ranganathan Venkata Sheshan,
Sy.No. 381/1, Mathura One,
1st Floor, Poryorias, Bardez - Goa

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

### GOA STATE POLLUTION CONTROL BOARD गोंय राज्य प्रद्यण

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

Phone Nos.: 0832-2407700

2407701, 2407702

2407703

Tel/Fax No. : 0832-2407700

Email lds:

Chairman, GSPCB: chairman-gspcb.goa@nic.in Member Secretary GSPCB: ms-gspcb.goa@nic.in Environment Engineer, GSPCB: ee-gspcb.goa.nic.in Scientist, GSPCB: scientist-gspcb.goa@nic.in

Office: mail.gspcb@gov.in

### AMENDMENT

Partial modification in the Renewal of Consent to Establish under Section 25/26 of the Sub: Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6 (1) of the Hazardous and other Waste (Management and Transboundry Movement) Amended Rules 2018 to M/s. GMR Goa International Airport Limited

Ref:- 1) Renewal of Consent to Establish under the Water and the Air Act and Authorization of the Hazardous Wastes order no. No.12/2019-PCB/299315/R0002481 dated 29/01/2020. 12/2019letter No. **CTE** vide your Amendment to

PCB/299315/R0002481/FLM/18670/Amde-98 dated 02.06.2020

In partial modification in the Renewal of Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6(1) of the Hazardous and Other Waste (Management and Transboundry Movement) amended Rules 2018 issued to M/s. GMR Goa International Airport Limited, Serial no. 6(xi) of the said order referred at (2) above may be read as follows:-

CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND 6. OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES 2018 as Amended:

The occupier shall furnish quarterly returns for collection, storage and disposal of (xi) hazardous waste through online OCMMS system.

M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED

C/o. Mr. Ranganathan Venkata Sheshan,

Sy.No. 381/1, Mathura One,

1st Floor, Porvorim, Bardez - Goa

(Dr. Shamila Monteiro) Member Secretary

Goa State Pollution Control Board

# Government of Goa Office of the Addl. Principal Chief Conservator of Forests & Chief Wildlife Warden Goa Van Bhawan, Altinho, Panaji-Goa

No. CWLW-105/Eco-Sensitive/FD-2019-20 20 802 Dated:15/06/2020 16 25. Vaisakha Saka-1940

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that none of the area of Mopa Airport project (as notified by Director of Civil Aviation, Goa) falls in the notified Eco-Sensitive Zone (ESZ) in the State of Goa. The project Proponent is not allowed to take up any activities prohibited in the Eco-Sensitive Zone.

(Santosh Kumar) IFS

Addl. Principal Chief Conservator of Forests & Chief Wildlife Warden Panaji-Goa

Copy to:

1. The Director of Civil Aviation, Secretariat, Porvorim-Goa.

2. The Dy. Conservator of Forests, North Goa Division, Ponda-Goa.

"Swachh Bharat, Swachh Goa" "Clean India, Clean Goa"

6°C

### GOA STATE POLLUTION CONTROL BOARD

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702

Tel/Fax No: 0832- 2407700



Email Ids:

Chairman, GSPCB, <a href="mailto:chairman-gspcb.goa@nic.in">chairman-gspcb.goa@nic.in</a> Member Secretary, GSPCB, <a href="mailto:ms-gspcb.goa@nic.in">ms-gspcb.goa@nic.in</a> Environment Engineer, GSPCB, <a href="mailto:ee-qspcb.goa@nic.in">ee-qspcb.goa@nic.in</a> Scientist, GSPCB, <a href="mailto:scientist-gspcb.goa@nic.in">scientist-gspcb.goa@nic.in</a>

Office, goapcb@gspcb.in

No.12/2020-PCB/740678/O0005702

Date:15/12/2020

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act,

CONSENT TO OPERATE AND AUTHORISATION is hereby granted to:

### M/s. MEGAWIDE CONSTRUCTION DMCC (TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)

(Represented by: Shri. Prabhat Rajan Satapathy)
(Expansion)
(Orange Category)

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

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

- 1. This Consent to operate is valid upto 15/12/2030
- 2. This Renewed Consent to operate is valid for the activity of:

Sr. No	Product	Quantity
1.	Mobile Crusher and Screening Units	2 Nos (400 TPH each)
2.	Mobile Crusher and Screening Units	3 Nos (350 TPH each)
3.	Mobile Crusher and Screening Units	3 Nos (250 TPH each)

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

- (i) The daily quantity of industrial effluent from the factory shall not exceed **NIL**
- (ii) The daily quantity of domestic effluent from the factory shall not exceed N11.

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

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

- (iv) The unit should empty septic tank and soak pit periodically through night soil tankers for safe disposal and submit the copies of the receipts to the Board on regular basis.
- (v) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

### (vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board.

### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT

(i) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq		
	Day time	Night time	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

## 5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) AMENDED RULES 2018:</u>

- (i) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (ii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iii) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (iv) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (v) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.

- (vi) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforceseen events that may occur during transit.
- (vii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (viii) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (ix) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous and other Waste (Management & Transboundary Movement) Amended Rules 2018.
- (x) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xi) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.
- (xii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.

### 5 GENERAL CONDITIONS:

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent & air emissions to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.

- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) Reliable flow meter shall be installed to maintain record of water consumption/waste water generation per day. The records so maintained shall be made available to the Board officials whenever required.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board/ Re-inspections due to non compliances observed by the Board and monitoring carried by the Board.
- (vii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (viii) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2011, if applicable.
- (ix) The unit shall submit returns for disposal of e waste under the E- Waste (Management & Handling) Rules 2018, if applicable.
- (x) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (Management & Handling) amended Rules 2018, if applicable.
- (xi) The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website goaspcb.gov.in"

To,
M/s. MEGAWIDE CONSTRUCTION DMCC
(TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)
C/o. Shri. Prabhat Satapathy
P.O Box No 1, Greenfield International Airport,
Mopa, Nagzar, Pernem, Goa, 403512

Copy to:- 1. Accounts Section

- 2. Concerned File
- 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs.3,04,00,000/-

NEFT Ref:	Amonnt	Date
N326201315984503	Rs. 73,257/- (Consent to Operate Expansion fees)	21/11/2020

SANJEEV Digitally signed by SANJEEV
JOGLEKA JOGLEKAR
Date: 2020.12.15
R 11:50:37 +05'30'

(Sanjeev Joglekar) Environmental Engineer Goa State Pollution Control Board

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez Goa-403511

### **GOA STATE POLLUTION CONTROL BOARD**

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702

Tel/Fax No: 0832-2407700



Email Ids:

Chairman, GSPCB, <u>chairman-gspcb.goa@nic.in</u>
Member Secretary, GSPCB, <u>ms-gspcb.goa@nic.in</u>
Environment Engineer, GSPCB, <u>ee-gspcb.goa@nic.in</u>
Scientist, GSPCB, <u>scientist-gspcb.goa@nic.in</u>

Office, goapcb@gspcb.in

No. 12/2021-PCB/814038/O0006412

Date: 20 /04/2021

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act,

**CONSENT TO OPERATE AND AUTHORISATION** is hereby granted to:

### M/S. MEGAWIDE CONSTRUCTION DMCC

(TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)

(Represented by: Shri. Prabhat Satapathy)
(Expansion)
(Orange Category)

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

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

- 1. This Consent to operate is valid upto 19/03/2030
- 2. This Consent to operate is valid for the activity of:

Sr. No	Product	Quantity
1.	Mobile Screening & Crushing Plant	4 Nos (350 TPH each)
2.	Mobile Screening & Crushing Plant	8 Nos (250 TPH each)

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

- (i) The daily quantity of industrial effluent from the factory shall not exceed **NIL**
- (ii) The daily quantity of domestic effluent from the factory shall not exceed 2.0 KLD

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

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

- (iv) The unit should empty septic tank and soak pit periodically through night soil tankers for safe disposal and submit the copies of the receipts to the Board on regular basis.
- (v) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

#### (vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board.

### 4. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT</u>

(i) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

#### 5 GENERAL CONDITIONS:

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent & air emissions to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.
- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.

_____

- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board/ Re-inspections due to non compliances observed by the Board and monitoring carried by the Board.
- (vii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (viii) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2011, if applicable.
- (ix) The unit shall submit returns for disposal of e waste under the E- Waste (Management & Handling) Rules 2018, if applicable.
- (x) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (Management & Handling) amended Rules 2018, if applicable.
- (xi) The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website goaspcb.gov.in"

To,

M/S. MEGAWIDE CONSTRUCTION DMCC (TEMPORARY PLANTS FOR CONSTRUCTION OF MOPA AIRPORT)

C/o, Shri, Prabhat Satapathy

P.O Box No I, Greenfield International Airport,

Mopa, Nagzar, Pernem, Goa, 403512

Copy to:- I. Accounts Section

- 2. Concerned File
- 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs.5,60,00,000/-

Online Payment	Amount	Date
835480	Rs. 1,92,800/- (Air, Water & HW Consent expansion fees)	22/02/2021

SANJEEV Digitally signed by SANJEEV JOGLEKAR Date: 2021.04.20 16:42:55 +05'30'

(Sanjeev Joglekar) Environmental Engineer Goa State Pollution Control Board

### GOA STATE POLLUTION CONTROL BOARD

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701,2407702

Tel/Fax No: 0832- 2407700



Email lds:

Chairman, GSPCB, <a href="mailto:chairman-gspcb.goa@nic.in">chairman-gspcb.goa@nic.in</a>
Member Secretary, GSPCB, <a href="mailto:ms-gspcb.goa@nic.in">ms-gspcb.goa@nic.in</a>
Environment Engineer, GSPCB, <a href="mailto:ee-gspcb.goa@nic.in">ee-gspcb.goa@nic.in</a>
Scientist, GSPCB, <a href="mailto:scientist-gspcb.goa@nic.in">scientist, spcb.goa@nic.in</a>

Office, goapcb@gspcb.in

No. 12/2018-PCB/839169/G0006673

Date:

09/04/2021

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

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

**CONSENT TO OPERATE AND AUTHORIZATION** is hereby granted to:

### M/s. MAGAWIDE CONSTRUCTION DMCC-RMC BATCHING PLANT

(Represented by: : Mr. Prabhat Satapathy)
(Green Category)

PO Bag No. 1, Greenfield International Airport, Mopa, Nagzar, Pernem – Goa.

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

1. This Consent to operate and Authorization is valid upto 03/03/2036.

2. This Consent to operate and Authorization is valid for the manufacture of:

Sr. No	Description	Quantity
1.	Pavement Quality Concrete (PQC) and Dry	9000 M ³ /Month
	Lean Concrete (DLC) M10-40	

- 3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:
- (i) The daily quantity of domestic effluent from the factory shall not exceed <u>0.54 KLD</u>
- (ii) Domestic Effluent treatment and Disposal:-

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

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

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez Goa-403511

(iv) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

### (v) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board.

(vi) The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Govt. of Goa and Directorate of Industries, Trade and Commerce, Govt. of Goa.

### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

(i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No	. Name Equipments/	of	No of Installation	Capacity	SO ₂	NO _x	HC	CO	PM
	Installation		mstanation		Kg/Hr		(g/k	w-hr)	
1.	D.G. set		01	125 KVA	1.8	9.2	1.3	3.5	0.3

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

Sr. No	Chimney attached to	Height
1.	D.G. set (125 KVA)	3 mtrs

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

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. (for D.G. set of 125 KVA)	25 ltrs/h

- (iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring Material & methodology for isokinetic sampling
- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vi) The unit should carry out emission monitoring from the stacks connected to D.G. set once in a year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.

(vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/Zone	Limits in dB (A) Leq		
	Day time	Night time	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

### 5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES 2016:</u>

(i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1.	5.1	Used/Spent oil	1000	To recycler registered with CPCB and
			ltrs/Annum	having valid authorization of SPCB

- (ii) The authorizer shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made thereunder.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under no circumstances the hazardous waste shall be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous Wastes (Management & Transboundary Movement) Amended Rules 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCMMS system.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.

xiii) The occupier shall ensure that the Hazardous	Wastes are not allowed to be stored for more than 90 days
----------------------------------------------------	-----------------------------------------------------------

### **6 GENERAL CONDITIONS:**

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or hazardous wastes or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent, air emissions and hazardous wastes to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.
- (v) This Consent to Operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The industry shall bear the cost of analysis / monitoring in case of complaints received by the Board/reinspections due to non compliances observed by the Board & monitoring carried by the Board.
- (x) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (xi) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2011, if applicable.
- (xii) The unit shall submit returns for disposal of e waste under the E- Waste (Management) Rules 2018, if applicable.
- (xiii) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (Management) Rules 2018, if applicable.

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez Goa-403511

(xv) The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website goaspcb.gov.in"

To,

### M/s. MAGAWIDE CONSTRUCTION DMCC-RMC BATCHING PLANT

(Represented by: Mr. Prabhat Satapathy

Flat. NO. 313, Plot No. 33, Princess Park Sector, 6 Dwarka Sec-6, South West Delhi.

Copy to:-

1 Accounts Section 2 Concerned File

3 Guard File

Received Consent fee of: The capital Investment of the unit is Rs. 5,93,50,000/-

Challan no.	Amount	Date
	Rs. 1,74,800/- (Air & Water Consent fees)	13/03/2021

KESHAV Digitally signed by KESHAV S FADKE Date: 2021,04.09 11:37:29 + 05:30

(Keshav Fadke)

Asst. Environmental Engineer

For Goa State Pollution Control Board

### **GOA STATE POLLUTION CONTROL BOARD**

### गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos: 0832-2407700,

2407701, 2407702

Tel/Fax No: 0832-2407700



Email Ids:

Chairman, GSPCB, <u>chairman-gspcb.goa@nic.in</u>
Member Secretary, GSPCB, <u>ms-gspcb.goa@nic.in</u>
Environment Engineer, GSPCB, <u>ee-gspcb.goa@nic.in</u>
Scientist, GSPCB, <u>scientist-gspcb.goa@nic.in</u>

Date: 22 /04/2021

Office, goapcb@gspcb.in

No.12/2020-PCB/780563/O0006089

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization/Renewal of under Rnle 6(i) of the Hazardous and other Wastes (Management and Transboundry Movement) amended Rules 2018

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

CONSENT TO OPERATE AND AUTHORISATION is hereby granted to:

### M/s. MEGAWIDE CONSTRUCTION DMCC (STP FOR LABOUR COLONY)

(Represented by: Shri. Prabhat Satapathy)
(Orange Category)

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

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

- 1. This Consent to operate is valid upto 21/12/2030
- 2. This Consent to operate is valid for the activity of:

Sr. No	Product	Quantity
1.	Installation & Operation of the Sewage	50 KLD
	Treatment Plant for the labour colony	

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

- (i) The daily quantity of industrial effluent from the factory shall not exceed NIL
- (ii) The daily quantity of domestic effluent from the factory shall not exceed 50 KLD

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez Goa-403511

### (iii) Sewage Treatment Plant:

The establishment shall install packaged sewage treatment plant (50 KLD capacity) based on BioFlocs – Moving Bed Bio Membrane Reactor (MBBMR) technology on the principle of biological digestion followed by specially designed submerged membrane filtration, as proposed, consisting of primary treatment comprising of Bar Screen, Oil & Grease separator, secondary treatment comprising of equalization, aeration & membrane module and tertiary treatment comprising of filtration, as is warranted with reference to influent quality and operate & maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

рН	Between	5.5 & 9.0	
Suspended Solids	Not to exceed	Not more than 20	
BOD, 3 days, 27° C	Not to exceed	10 mg/l	
COD	Not to exceed	50 mg/l	
Oil & Grease	Not to exceed	10mg/l	
NH4-N	Not to exceed	5mg/l	
N-total	Not to exceed	10mg/l	
Fecal Coliform	Less than	100mg/l	

#### (iv) Sewage Disposal:

The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening. There shall not be any discharge outside the hotel premises.

- (iv) The establishment shall provide a proper Oil and Grease Trap for effluent arising from its kitchen and laundry and shall have to comply with the 'General Standards for Discharge of Environmental Pollutants Part-A: Effluents' notified under Schedule-VI
- (v) A good house-keeping shall be maintained within the premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.
- (vi) The establishment should have zero discharge policy. i.e. the treated waste water may be reused in process/green belt development/or any other use as deemed fit by the unit with due permission from the Board.

#### (vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board..

### 4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT

(i) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq		
	Day time	Night time	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

- 5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) AMENDED RULES 2018:</u>
- (i) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (ii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iii) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (iv) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (v) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vi) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (vii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (viii) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (ix) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous and other Waste (Management & Transboundary Movement) Amended Rules 2018.
- (x) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xi) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages:-
  - Hazardous Waste category number.
  - Hazardous Waste quantity number.
  - Treatment facility for each category.
  - Mode of disposal for each category.
  - Hazardous Waste Authorization number, date and validity period.
  - Water Consent number, date and validity period.
  - Air Consent number, date and validity period.
  - Quantity and Nature of Hazardous Chemicals being used.

(xii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.

### 5 GENERAL CONDITIONS:

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or control equipments provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent & air emissions to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60 days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted.
- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force.
- (vi) This Consent does not entitle the party to commence activities until and unless all the other Permissions as required under the relevant statutes are obtained by the party and this Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vii) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) Reliable flow meter shall be installed to maintain record of water consumption/waste water generation per day. The records so maintained shall be made available to the Board officials whenever required.
- (viii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (ix) The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board/ Re-inspections due to non compliances observed by the Board and monitoring carried by the Board.
- (vii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.

- (viii) The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2011, if applicable.
- (ix) The unit shall submit returns for disposal of e waste under the E- Waste (Management & Handling) Rules 2018, if applicable.
- (x) The unit shall submit returns for disposal of plastic waste under the Plastic Waste (Management & Handling) amended Rules 2018, if applicable.
- (xi) The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website goaspcb.gov.in"

To,
M/s. MEGAWIDE CONSTRUCTION DMCC (STP FOR LABOUR COLONY)
C/o. Shri. Prabhat Satapathy
P.O Box No 1, Greenfield International Airport,
Mopa, Nagzar, Pernem, Goa, 403512

Copy to:- 1. Accounts Section

- 2. Concerned File
- 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs.14,75,000/-

Online Payment	Amount	Date
8781	Rs. 19,543 /- (Consent expansion fees)	16/04/2021

SANJEEV JOGLEKAR Digitally signed by SANJEEV JOGLEKAR Date: 2021.04.22 12:15:49

+05'30'

(Sanjeev Joglekar)
Environmental Engineer
Goa State Pollution Control Board



#### भारत सरकार

#### Government of India वाणिज्य और उद्योग मंत्रालय

#### Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO) ए-1 और ए-2 विंग, पाँचवा तल, केंद्रीय कार्यालय परिसर, सी.बी.डी. बेलापर

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

संख्या /No. : P/WC/GA/14/275 (P428920)

दिनांक /Dated : 15/07/2020

सेवा में

/Τo,

M/s. Megawide Construction DMCC,

S.No. 257/1257/2, Vill- Casarvornem, Tal-Pernem,

Casarvornem, Pernem,

Taluka: Pernem, District: NORTH GOA.

State: Goa

PIN: 999999

वेषय Gut No, 257/1,257/2, Casarvornem, Vill- Casarvornem Tal- Pernem, Pernem, Taluka: Pernem, District:

/Sub: NORTH GOA, State: Goa, PIN: 403512 में पेट्रोलियम वर्ग B Consumer Pump ।

Petroleum Class B Consumer Pump at Gut No, 257/1,257/2, Casarvornem, Vill- Casarvornem Tal- Pernem,

Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512

महोदय /Sir(s),

कृपया आपके पत्र क्रमांक OIN460842 दिनांक 25/06/2020 का अवलोकन करें।

Please refer to your letter No. OlN460842 dated 25/06/2020

विषयान्तर्गत पेट्रोल पम्प में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XIV में स्वीकृत तथा दिनांक 31/12/2022 तक वैध अनुज्ञप्ति संख्या P/WC/GA/14/275 (P428920) दिनांक 15/07/2020 भेजी जा रही है ।

Licence No. P/WC/GA/14/275 (P428920) dated 15/07/2020 granted in Form XIV under the Petroleum Rules, 2002 and valid till 31/12/2022 for the storage of the following kind and quantities of Petroleum at the subject petrol pump is forwarded herewith.

<%---%> <%----%><%----%>

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेद्रोलियम /Petroleum Class A in bulk	NIL
Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	40.00 KL
Petroleum Class B, otherwise than in bulk	NIL
Petroleum Class C in bulk	NIL
Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	40.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें तथा अनुज्ञप्ति के नवीकरण हेतु समस्त प्रपत्रों को अनुज्ञप्ति की वैधता समाप्ती की तारीख या उससे पूर्व to **Jt. Chief Controller of Explosives, West Circle, Mumbai**, so as to reach his कार्यालय को प्रेषित करें। Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to **Jt. Chief Controller of Explosives, West Circle, Mumbai**, so as to reach his office on or before the date on which Licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है । This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

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

#### Copy forwarded to :-

1. The District Magistrate, NORTH GOA(Goa) with reference to his NOC No 9/30/2018-NOC/424 Dated 04/02/2020

For Jt. Chief Controller of Explosives
Mumbai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट: http://peso.gov.in देखें)

(For more information regarding status, fees and other details please visit our website: http://peso.gov.in)

Note:-This is system generated document does not require signature.

Disclaimer: This page gives the latest action taken by this organization on your application. This page is made available for the information of concerned applicant/licensee only. For documentary purposes, only the original documents issued under the seal and signature of the respective offices of Petroleum & Explosives Safety Organization shall be valid. All efforts have been made to secure this information. However, PESO will not be responsible for any misuse of the information by unauthorized persons including the hackers.



#### Government of Goa

### Water Resources Department

Sinchai Bhawan, near Police Station, Alto-Porvorim, Bardez, Goa – 403 521 Tel: C.E. Off. - (0832) 2412047, Fax: (0832) 2413046,

No. 7/3/ EO /WRD/ 2020-21/527

Date: 10/02/2021

Jo,

The Chief Development Officer, GMR Goa International Airport Ltd, Survey No. 381/3, Mathura One, 1st Floor, NH-17, Porvorim-Goa, 403507.

Sub: - Approval of Drainage Plan, Rain Water Harvesting and Ground Water Re-charge Measures/Drawings of Green International Airport Limited, Mopa Goa reg...

Ref:- Your letter No. GGIAL/WRD/2020-21/0494 dated 15.07.2020.

Sir,

With reference to the above cited subject, the drainage plan and the Ground Water Harvesting proposal has been examined by the department as per the provisions of Goa Ground Water Regulations Act, 2002 read with Central Ground Water Board guidelines and Goa Irrigation Act, 1973.

The department conveys No Objection Certificate in implementing the above proposals subject to the following conditions:

### A. For Drainage Plan:

- 1. All the drainages should be constructed as per the approved layout plan.
- 2. Adequate measures shall be taken to ensure that oil/liquid waste/solid waste does not flow in to the drains.
- 3. Water measuring devices shall be installed at least one each on main drains to measure the quantity of water out flow.
- 4. Lining to the drainage channels should be staggered as far as possible to facilitate recharge of Ground Water and in any case the unlined portion should not be less than 4000 mts of total length.
- 5. Water holding pits/tanks/baffle walls shall be provided in the drains at an average distance of every 200 mts. to retard velocity of flow up to 1.50m/sec to enhance ground water recharge.

#### Β. For Rain Water Harvesting and Ground Water Recharge:

- 1. Recharge bore wells to be provided at spacing of 500 mts in the lined and unlined drainage channel on airside as well as land side with proper filtration system as per the enclosed drawing.
- 2. Adequate measures shall be adopted to protect the groundwater aquifer from pollution.
- 3. Three nos, of water harvesting ponds shall be provided as shown in the drawing submitted.
- 4. Water flow measuring devices should be installed at different locations. for verification and validation by the Water Resources Department.
- 5. Department may suggest additional measures as need be, depending on the actual performance of the water harvesting structures and same shall be implemented by the applicant.
- 6. The applicant should intimate this authority while implementing the water harvesting structures.
- 7. The implementation drawings of ground water recharge structures along with recharge bore well locations, shall be got approved by the Ground Water Officer incharge before commencement of the work.
- 8. Necessary statutory permissions are to be obtained from the concerned departments/authorities as required.

(S.D. Patil)
Chief Engineer (WR)

#### Copy for information to:-

- 1.. The Member Secretary, GSPCB, Saligao-Bardez-Goa.
- 2. The Superintending Engineer, Circle-I, WRD, Porvorim-Goa.
- 3. The Superintending Engineer, Circle-II, WRD, Karaswada-Goa.
- 4. The Executive Engineer, WD VII, WRD, Dhargal-Pernem-Goa.
- 5. The Executive Engineer, WD I, (G.W.Officer), WRD, Porvorim-Goa.
- The Assistant Engineer, SD III, WD I, (G. W. Officer), WRD, Pernem-Goa. 6.

### GOA STATE POLLUTION CONTROL BOARD गाँथ राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

Phone Nos.: 0832-2407700

2407701, 2407702

2407703

Tel/Fax No. : 0832-2407700

GOA

Email lds:

Chairman, GSPCB: chairman-gspcb.goa@nic.in Member Secretary GSPCB: ms-gspcb.goa@nic.in Environment Engineer, GSPCB: ee-gspcb.goa.nic.in Scientist, GSPCB: scientist-gspcb.goa@nic.in

Office: goapcb@gspcb.in

No.8/25/19-PCB/Vol.XII/lab / 2 2 6 6 8

dated: 69/03/2021

To,
The CEO,
GMR Goa International Airport Limited- GGIAL,
Mathura One, Porvorim.

Sub:- Site Visit Report on Identification of AAQM and Noise Monitoring Sites/ Locations in and around the 10 Kms of GMR Goa Airport Project at Mopa, Pernem Taluka Goa.

Ref: your mail dt 14/02/2021.

Sir,

With reference to above, it is to inform you that as per the inspection conducted on 03/02/2021, The following CAAQMS/ Continuous Noise Monitoring station/Seasonal Noise Monitoring Station along the flight Path are selected.

Sl. No.	Name of Site for installation of CAAQMS/Continuous Noise Monitoring Station and Seasonal Monitoring Stations.	Latitude and Longitude	Remarks
1.	Mrs. Jennifer Pereira, H. No. 347, Pimpalwada, Hasapur, Pernem-Goa.		Noise Monitoring location in Funnel Zone in Goa. Noise Monitoring during seasonal period as per EC conditions in flight path
2.	Mr. Sanjay Naik, H. No. 16, Deulwada, Hankhane, Pernem- Goa	N- 15°43' 55.5" E- 073°56'23.1"	Noise Monitoring location in Funnel Zone in Goa. Noise Monitoring during seasonal period as per EC conditions in flight path
3	Mr. Kiran Rama Chandra Prabhu, H. No. 184 A, Meswadi, Satarda, Sawantwadi Tehsil, Sindhudurga District,—Maharashtra.		Noise Monitoring location in Funnel Zone in Maharashtra. Noise Monitoring during

Near Piterne Industrial Estate, Opp. Saligao Seminary, Saligao, Bardez, Goa - 403 511

			seasonal period as per EC conditions in flight path and also for continuous Noise Monitoring Station.
4.	Mr.Sanjay Sonu Gadekar, H. No. 480, Near Dutta mandir, Satose Village, Sawantwadi Tehsil, Sindhudurga District,—Maharashtra.	N- 15°44' 40.6" E- 073°49'03.1"	Noise Monitoring location in Funnel Zone in Maharashtra. Noise Monitoring during seasonal period as per EC conditions in flight path
5.	Mr.Santosh Krishna Parab, H. No. 673, Gauthanwada, Sasoli Village, Dodamarg Taluka, Sindhudurga District,—Maharashtra.	N- 15°44' 06.3" E- 073°56'52.0"	Noise Monitoring location in Funnel Zone in Maharashtra. Noise Monitoring per EC conditions in flight path for continuous Noise Monitoring Station.
6.	CAAQMS station near MRSS (Main Receiving Sub Station) site is towards South East Direction with reference to Airport reference point	N- 15°43' 42.5" E- 073°51'31.7"	The said station will be installed and operate for short duration and same will be further shifted in predominant wind direction ie. South west wind flows towards North East direction once the operation of 1st runway starts.

Attached the Google Map Showing the CAAQM location and Noise Monitoring Stations is also attached for your reference.

Yours faithfully,

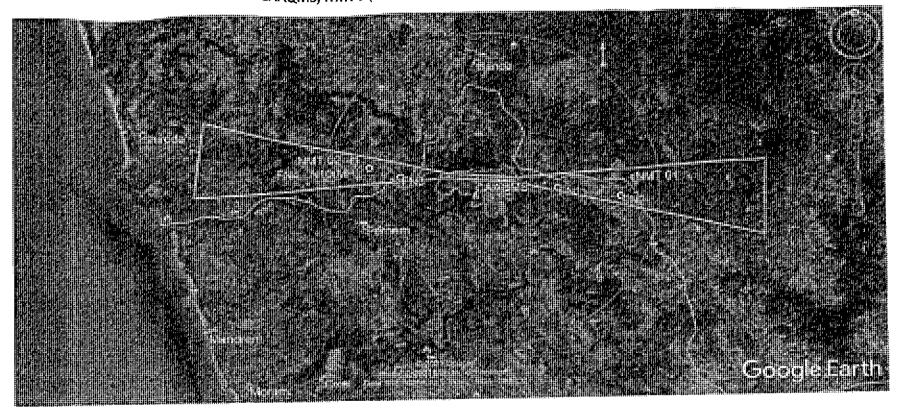
(Dr. Shamila Monteiro)

Member Secretary
Goa State Pollution Control Board

### c.c to:

- 1. The Director, Government of Goa, Directorate of Civil Aviation, Secretariat, Porvorim- Goa 403521.
- 2. Office copy
- 3. Guard file

### GMR GOA International Airport Limited, Mopa, Goa CAAQMS, NMT's (2 Locations) Noise monitoring (4 Locations)



Noise Monitoring	Location Name	Direction from the Airport Reference Point (ARP)	Latitude	Longitude	Altitude in meter (MSL
Stations	<u> </u>				
Locations in Goa			N 15°43'42.50"	E 73°51'31.70"	154
CAAQMS	Mopa Airport	South West   (within project site)			20
		East	N 15°44'6.30"	E 73°56'52.00"	28
NMT-1	Sasoli		N 15º44'51.0"	E73º47'29.00"	10
NMT-2	Meswada-Satarda	West	N 15°44'15.40"	E73°54'17.40"	17
FN1	Pinpalwada-Haspur	East		£ 73°56'23.10"	23
FN2	Devalwada-Hankane	East	N 15°43'55.90"		- 3
		West	N 15°44'40.80"	E 73°49'3.36"	
FN3	Satose		N 15°45'01,3"	E73°48'00.2"	30
FN4-N10(MH)	Satarda	West		<u> </u>	

CAAQMS

: Continuous Ambient Air Quality Monitoring System : Noise Monitoring Terminal : Noise monitoring location in Funnel area

NMT

FN

File No.-21/71/2017-DSO

### Annexure No.

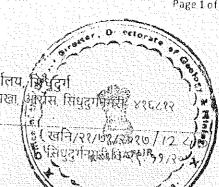
Page 1 of 7

महाराष्ट्र शासन

जिल्हाधिकारी व जिल्हादंडाधिकारी कार्यालय, शिर्धुदुर्ग

मुख्य प्रशासकीय इमारत तळ मजला दालन क १२२ खनिकर्भ शाखा अस्प्रिस सिधुदुर्गीहरीहर ४१६८१२

E-mail ID



वाचलेः

दिनाक १६७१२/२०१६ रोजीचा श्री.कृष्णा वासुदेव कुंडणेकर रा भेडशी तीसवाडी स वेत्ये,ता सावतवाडी, स.च. ९९/९ व १०२/१५, क्षेत्र-१९१७ पेकी १७० हे आर मध्ये काळा दगेडे उत्खननासाठी गोणखनिज खाणपट्टा मागणीचा विनती अर्ज

महाराष्ट्र गौण खनिज उत्खनन (विकास व विनियमन) नियम, २०१३

महाराष्ट्रे जभीन महस्रल अधिनियम १९६६ मधील कलम ४८

विषयः गौणखनिज खाणपट्टा मंजुरीबावतः

श्री कृष्णा वासुदेव कुंडणेकर, रा. भेडणी- तीसवाडी, गोवा यांचा मौजे वेत्ये.ता.सावतवाडी, स.न. ९९/९ व १०२)४१५ क्षेत्र- १.९१७ पेकी १.७० हे आर मध्ये काळा दगड उत्खननासाठी ५ (पाच) वर्ष मुदतीचा गोणखनिज खाणपट्टा मंजूर करून मिळणेबाबतचा अर्ज

आदेश

महाराष्ट्र गोण खनिज उत्खनन (विकास व विनियमन) नियम २०१३ व महाराष्ट्र जमीन महसूल अधिनियम् १९६६ अन्वये प्राप्त झालेल्या अधिकारानुसार भी अपर जिल्हाधिकारी सिधुदुर्ग अर्जदार श्री.कृष्णा दासुदेव कुङणेकर, रा. भेडशी-तीसवाडी, गोवा पाना मीजे वेत्ये,ता सावतवाडी, स.न. ९९/९ व १०२/१५ क्षेत्र- १.९१.७ पैकी १.७० हे.आर क्षेत्रात निष्पादनाच्या तारखेपासून ५ (पाच) वर्षे कालावधीकरिता गोणखनिज (काळा दग्रंड) खाणपट्टा खालील अटी व शर्तीनी मजूर

### खाणपृष्ट्रयासाठीच्या अटी व शर्ती

४६. (एक) पट्टेदार हा, ज्या तारखेला पट्टा मंजूर केला असेल त्या तारखेला. शासनाने वेळोवेळी विनिर्दिष्ट केलेल्या दरानुसार पष्टुयाने दिलेल्या क्षेत्रातून काढलेल्या गौणखनिजांवर खामित्वधन भरील, परंतु अशा दरामध्ये तीन वर्षांतून केवळ एकदाच

(दोन) पट्टेदाराकडून स्वामित्वधन हे मार्च, जून, सप्टेंबर आणि डिसेंबर महिन्यांच्या संपणा-या भागांसाठी तीन महिन्यांनी भरण्यात येईल आणि ते प्रत्येक भाग पूर्ण झाल्यानंतर पंधरा दिवसांच्या आत भरण्यात येईल.

(तीन) देय स्वामित्वधनाचीसंगणना करण्याच्या प्रयोजनार्थ पट्टेदार स्वयंनिर्धारणाच्या आधारे उक्त देय रकमेची संगणना करील व त्यानुसार कोषागारात भरणा करील अंतिम निर्धारण केल्यानंतर सक्षम अधिका-याच्या मागणीनुसार स्वामित्वधनातील फरकाची रक्कम भरणे पट्टेदारावर बंधनकारक असेल परंतु या नियमात अंतर्भूत असलेल्या तरतुर्दींना कोणतीही बाधा न आणता सक्षम अधिकारी असे खामित्वधन व खाणकामासंबंधातील इतर देय रकमा भरण्यासाठी शासनाने निश्चित केलेला दिनोक उलटून गेल्याच्या साठाव्या दिवसापासून स्वामित्वधन व खाणकामासंबंधातील इतर देय रकमांच्या विलंबाने केलेल्या प्रदानावर असे स्वामित्वधन व खाणकामासंबंधातील इतर देय रकमा भरेपर्यंत प्रतिवर्षी १५ % दराने सरळ व्याज आकारतील.

(चार) पट्टेदार हा स्वामित्वधनाच्या प्रदानाच्या संबंधात ३० जून ३० सप्टेंबर, ३० डिसेंबर, ३० मार्च रोजी संपणा-या कालावधीसाठी सक्षम अधिकारी व संचालक यांच्याकडे नमुना- ठ भध्ये त्रैमासिक विवरणपत्र सादर करील.

V. P.NOVan

VIVEK P. NAVARE Technical Qualified Person. (पाच) पहेदार हा पहुंचाच्या प्रत्येक कॅलेंडर वर्षांसाठी शासनाकडून वेळोवेळी विनिर्दिष्ट करण्यात येईल. असे वार्षिक ठोकबंद भाडे देईल आणि त्याच क्षेत्रातून एकापेक्षा अधिक खनिज काढण्याची परवानगी पहेदारांना दिली असेत तर ते शासनाकडून वेळोवेळी निश्चित करण्यात येईल त्याप्रणाणे अशा प्रत्येक खनिजासाठी असे स्वतंत्र ठोकबंद भाडे भरतील परंतु ठोकबंद भाडे भरतील परंतु ठोकबंद भाडे भरतील परंतु गौणखनिजाच्या संबंधाल ठोकबंद भाडे किंवा स्वामित्यधन यांपैकी जी स्क्कम जास्त असेत ती स्वकम परंतु दोन्हीं नव्हें भरण्यास पात्र असेत. परंतु आणखी तसेच, पट्टा अमलात आल्यापासून पहिल्या तीन महिन्यांसाठी ठोकबंद भाडे देय असणार

(सहा) पट्टेदार हा ज्या क्षेत्रासाठी काम करण्याची परवानगी देण्यात आली असेल त्या क्षेत्राचे खाणपट्टाधारक भूपृष्ठ भाडे व त्या क्षेत्राच्या अकृषिक निर्धारणाइतका उपकर प्रत्येक कॅतेंडर वर्षाला भरेल कालावधीची गणना ही पट्टयाची अंमलबजावणी केल्याच्या दिनांकापासूत तसेच ज्या पट्टा क्षेत्रासाठी काम सुरु करण्याची परवानगी मिळालेली नाही त्यासाठीही भविष्यलक्षी प्रभावाने करण्यात येईल.

(सात) सक्षम अधिका-याने पुरेशा कारणासाठी अन्यथा परवाना दिल्याखेरीज पट्टेदार पट्टयाच्या अमलबजावणीच्या दिनांकापासून तीन मिहन्यांच्या आत खाणकामास सुरुवात करील. आणि खाण कामगारांची सुरक्षितता, खनिजांचे संरक्षण या बाबींची खात्री करून घेऊन कार्यकुशल व यथायोग्य पद्धतीने हे काम हस्तांतरीत करील व पार पाडेल. परंतु शासनाच्या मते खाणींचे विनियमन व खाणींचा विकास, प्रदूषणापासून संरक्षण करण्याच्या किंवा सार्वजनिक आरोग्य किंव। दळणवळण यांना असलेला धोका टाळण्याच्या किंवा इमारती, स्मारके किंवा इतर संरचना यांच्या सुरक्षिततेची सुनिश्चिती करण्याच्या हिताच्या हष्टीने किंवा शासनाला योग्य वाटेल अशा इतर प्रयोजनांसाठी कोणताही खाणपट्टा कायमस्वरुपी समाप्त करणे इष्ट वाटत करता येईल किंवा संपुष्टात आणता येईल. परंतु आणखी असे की. खाणपट्टा मुदतीपूर्वीच समाप्त केल्यानंतर शासनाला योग्य वाटेल त्याप्रमाणे इतर पात्र व्यवतीला किंवा शासनाची मालकी असलेल्या किंवा नियंत्रण असलेल्या अशा शासकीय कंपनीला किंवा महामंडळाला खाणपट्टा देता येईल.

(आठ) खाणकामास सुरुवात करण्यापूर्वी पट्टेदाराने सक्षम अधिका-याशी विचारविनिमय करून आणि त्याच्या स्वतः व्या खर्चाने जिल्हा अधीक्षक भूमि अभिलेख यांच्यामर्फत पट्टयाचे क्षेत्र सीमांकीत करील आणि त्यांचा पट्टयाने दिलेले क्षेत्र दर्शवण्यासाठी आवश्यक ती ठळक सीमाचिन्हे आणि स्तंभ उभारून ते चांगल्या स्थितीत ठेवील आणि अशी सीमाचिन्हें आणि स्तंभ नेहमीच चांगल्या स्थितीत ठेवील व राखील. पट्टेदार हा त्याच्रून क्षेत्रातून जाणारा कोणताही रस्ता, वीज पारेषण, ट्राममार्ग, रेल्वेमार्ग, व्याद्मार्ग, जलवाहिनी इत्यादींची यथायोग्य देखभाल करील. खाणकामासाठी लागणारे पाणी योग्य प्रकार वाहून नेण्यासाठी योग्य मार्गही तथार करील. त्यांच्या पट्टयांच्या धारण क्षेत्रातील कोणत्याही प्रकारच्या जिमनीची (शासकीय किंवा खाजगी जमीन)

(नऊ) पट्टेदार पुढील गोष्टींची खात्री करून घेण्यासाठी खालीलप्रमाणे पुरेशा उपाययोजना करील: (क) खनिजे व इतर कचरा सुलभतेने काढता यावा उघडया खाणीतील पाय-यांची उंची तसेच रुंदी योग्य प्रमाणत ठेवण्यात आली आहे. खाणीचा पृष्ठभाग हा गाळ किंवा माती किंवा मुरुम किंवा दगडाचे तुकडे किंवा मलबा किंवा इतर कोणताही ठिसूळ किंवा मऊ थरांचा असेल तर खाणीतील उतार क्षितीजसमांतर रेषेपासून पंचेचाळीस अंश इतक्या सुरक्षित कोनामध्ये असेल. पट्टेदाराकडून खाणीच्या पाय-या अशा रीतीने करण्यात येतील की पाय-यांची रचना आणि प्रत्येक पायरीची उंची दीड मीटरपेक्षा अधिक असणार नाही. पाय-यांची रुंदी उंचीपेक्षा कमी असणार नाही खाणीचा पृष्ठभाग कठीण खडकाने बनलेला असेल तर खाणीचा उतार क्षितिजसमांतर रेषेपासून साठ अंशापेक्षा जास्त नसेल अशा कोनात असेल आणि खाणीचा पृष्ठभाग पाय-यांचा स्वरुपात असेल कोणत्याही पायरीची उंची सहा मीटरपेक्षा जास्त असणार नाही आणि तिची रुंदी उंचीपेक्षा कमी असणार नाही. (ख) कामाचा पृष्ठभाग नेहमी स्वच्छ ठेवण्यात येईल आणि (ग) उत्खनन केलेली गौणखनिजे ठराविक योग्य त्या मोजमापाचे ढीग करून साठवली जातील आणि प्रत्येक ढिगाला क्रमांक दिला जाईल.

(दहा) जर पट्ट्यात विनिर्दिष्ट न केलेले गौणखनिज खाणक्षेत्रात कोणत्याही वेळी आढळून आले असेल तर पट्टेदार त्याबाबतची माहिती सक्षम अधिका-याला आणि संचालकांना विनाविलंब देईल आणि त्या कामासाठी स्वतंत्र पट्टा मिळाल्याखेरीज त्या गौणखनिजासंबधी कोणतेही खाणकाम हाती घेणार नाहीं किंवा अशा गौणखनिजावी विल्हेवाट लावणार नाहीं गौणखनिज आढळून आल्याच्या दिनांकापासून तीन महिन्यांच्या आत जर पट्टेदाराने असा पट्टा मिळविण्यासाठी अर्ज करण्यात कसूर केली तर सक्षम अधिका-याला अशा गौणखनिजाबाबतचा पट्टा दुस-या कोणत्याही व्यक्तींना मंजूर करता येईल.

(अकरा) पट्टेदार त्याला पट्टयाने दिलेल्या क्षेत्रात योग्य अशी रञ्छता ठेवण्याची व्यवस्था करील.

(वारा) पट्टेदार हा गौणखनिजाचे जतन आणि विकसन या संदर्भात राज्य शासन किवा/संग्रेतक यांनी वेळोवेळी दिलेली हो। अशा सर्व सूचनाचे व निर्देशांचे पालन करीत

(तेरा) पहुंदार हा खाणकामाचा आणि त्याच कर्मचारी स्थळाता सट देणारे लोक वासी सुरक्षितता आराग्य आणि त्यांची महें यावर परिणाम करणा या बाबीचा संबंधात अमलात असलत्या कोणत्याही कायद्यासीहारतरतुदीचे पालुझ करील आणि द्रेति कोणत्याही व्यक्तीकडे विहित असणारे भार्य पाणी व इतर सुविधा यावावतच्या सर्व विक्**रिस** अधिका**रांका आर्टरे के**रील

(चौदा) पहेदार हा (क) संबंधित रेल्व प्राधिकरणाची याबावतीत लेखी परवानगी मिळात्याचीरीच कोणत्याही रेल्व गांधिकरणाची याबावतीत लेखी परवानगी मिळात्याखेरीच कोणत्याही रेल्व गांधिकरणाची याबावतीत लेखी परवानगी मिळात्याखेरीच केण्यासाही जूदार गांधिक रेखा, नहीं, नाला, पाटबंधा-पांची काम किवा सार्वजनिक बांधकाम किवा इमारती याच्या हद्दीप्रसूचक के पुरुगस्फाटाचा अतर्भाव तर, ५० मीटर अंतराच्या आत आणि सुरुगरफोटाचा अतर्भाव असेल तर, २०० मीटर अंतराच्या आत कोणत्याही ठिका करण्यास परवानगी देणार नाही अश्री कोणतीही परवानगी देत असताना रेल्वे प्राधिकरणाच्या किवा कोणत्याही संबंधित प्राधिकरणाच्या सल्त्यानुसार शासन शर्ती पालू शकेल आणि पहेंदार हा अश्रा शर्तीचे पालन करील

(पंधरा) पट्टेदार हा त्यांना खाणकामासाठी आलेल्या खर्चाचे अचूक व खरे लेखे आणि खोदून काढलेल्या सर्व प्रकारचा। गोणखिनजांचे प्रमाण आणि इतर तपशील खरदीदारांची नाव मिळवलंल्या पेशांच्या पावत्या, खाणीत सध्या कार्यरत असणा-या कर्मचा-यांची संख्या आणि खाणीचा संपूर्ण नकाशा या बाबी दर्शवणारे लेखे ठेवील आणि सक्षम प्राधिकारी आणि संवालक यांपैकी कोणालाही वेळोवळी आवश्यकता असल अशी माहिती, अहवाल व विवरणपत्रे व यांबरोबर खाणकामाच्या दरम्यान मिळलल्या खनिजांचे प्रातिनिधीक नमुनेही देईल आणि दर महिन्याच्या १० तारखेंपर्यंत अधिका-यांना आधीच्या कॅलेंडर महिन्यात उत्पादित केलल्या एकूण खनिजांचे प्रमाण व त्यांचे मूल्य यांचे नमुना- ड मधीलं विवरणपत्र सादर करतील, पट्टेदार एकूण प्रमाण व त्यांचे मूल्य देणारे वार्षिक विवरणपत्र नमुना- ढ मधी सादर करील, परंतु जर पट्टयांचा कालावधी वर्ष संपण्यापूर्वीच पूर्ण होत असेल तर पट्टेदार अशा कमी कालावधीतील विवरणपत्र सादर करील.

(सोळा) पहुंदार हा शासनाने याबाबतीत प्राधिकृत केलत्या कोणत्याही अधिका याला किवा सक्षम अधिका-याला त्याच्या पहुयातील कोणतीही इमारत, उत्खनन, अथवा जिमन यांची तपाराणी करण्याच्या प्रयोजनार्थ किंव: अथा अधिका-याकड जे लेखें नकार्था, आणि अभिलेख सादर करावयाची आव श्यकता असेल त्यांची तपासणी करण्यासाठी प्रवेश करण्याची परवानगी देईल, खनिजांचे अपव्यवकारी उत्खनन होऊ नये यासाठी अथा कोणत्याही अधिका याला यांग्य वाटतील अणा वाजवी सूचना देता येतील आणि पहेदार त्यांचे प्रतिनीधी किंवा व्यवस्थापक हा अधिका याने निश्चित केलेल्या कालावधीत सदर सूचनांचे पालन करणे हे त्यांचे कर्तव्य असेल

(सतरा) कोणतीही रेल्वे, जलाशय, कालवा, रस्ता किंवा इतर कोणतेही सार्वजनिक बांधकाम किंवा सरचना यांच्या सुरक्षिततेसाठी खाणीचा कोणताही भाग भक्कम करण्याची किंवा त्याला आधार देण्याची गरज असेल, तेथे पट्टेदार हा रेल्वे सुरक्षिततेचा अतर्भाव असल्यास संबंधित रेल्वे प्राधिकरणचे किंवा प्रयोजनासाठी सक्षम अधिका-याने प्राधिकृत केलेल्या कोणत्याही अधिका-याचे समाधान होईपर्यंत ते करण्याची व्यवस्था करील

(अठरा) पट्टेदाराने पट्ट्यांची अंमलबजावणी करण्यांच्या तारखेपासून १८० दिवसांच्या कालावधीत खाणकाम हाती घेण्यात कस्र केली असेल किंवा खाणकाम सुरू केल्यानंतर ते सलग १८० दिवसांच्या कालावधीसाठी थांबवले असेल तर, पट्ट्यांची अमलबजावणी केल्यांच्या किंवा यथास्थिती खाणकाम थांबवल्यांच्या तारखेपासून १८० दिवसांच्या कालावधी पूर्ण झाल्यानंतर अधा पट्टा व्यपगत झाला असल्यांचे समजण्यात येईल परंतु, सक्षम अधिका-यांला या उप नियमाखालील पट्टा समाप्त होण्या पूर्वी अधा पट्टाधारकाने केलेल्या अर्जावरून आणि पट्टाधारकांच्या नियंत्रणांबाहेरील कारणामुळे खाणकामे हाती घेणे किंवा चालू होला पट्टाधारकास शक्य होणार नाही अशी सक्षम अधिका-यांची खात्री पटल्यास, आदेशात विनिर्दिष्ट करण्यात येईल अशा धार्वीना अधीन राहून, असा पट्टा व्यपगत होणार नाही अशा आशयांचा आदेश काढता येईल परंतु आणखी असे की, पट्टाधारकाने पट्टा व्यपगत झाल्याच्या दिनांकापासून सहा महिन्याच्या कालावधीत सादर करण्यात आलेल्या अर्जावरून आणि पट्टाधारकाच्या नियंत्राणांबाहेरील कारणामुळे काम सुरू केले नव्हते किंवा थांबवले होते यांबाबत राज्य शासनाची खात्री पटल्यास शासनाला योग्य वाटेल त्याप्रमाणे भविष्यलक्षी किंवा भृतलक्षी अशा दिनांकापासून परंतु पट्टा व्यपगत झाल्याच्या कोणताही खाणपट्टा, पट्ट्याच्या संपूर्ण कालावधीत दोनपेक्षा अधिक नसेल इतक्या वेळा पुन्हा सुरू करता येणार नाही.

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(एकोणीस) पट्टेंदार हा सर्व अपघातांची गाहिती जिल्हा दंडाधिकारी, पोलीस अधीक्षक व सक्षम अधिकारी पांना आणि अपघातांचे गांभीर्य लक्षात घेता तथी गरज र सत्यास भारत सरकारचे संबंधित खाणसुरक्षा संचालक यांनाही तात्काळ देईल

(वीस) या पहुंचात समाविष्ट असलेली कीणतीही जिमन की जी खाणपहुंचाने देण्याकरिता उपलब्ध नव्हती असे नंतर आढळून आत्यास, अशा कीणत्याही जिमनीमुळे होणा या नुकसानीबद्दलच्या पहुंदाराच्या दाव्यापासून शासन मुक्त असेल

(एकवीस) पट्टेदार किंवा त्यांच्या हस्तांतरिती किंवा अभिहरतांकीती हा, इमारत उभारण्याच्या संबंधात अभतात असलेल्या कोणत्याही कायद्याच्या, आदेशाच्या किंवा सूचनांच्या तरतुदींचे उल्लंघन करून किंवा ज्याच्या अधिकारीतेत पट्टाक्षेत्र येत असल अशा कोणत्याही अधिका-याने किंवा असे कोणतेही कायदे, आदेश किंवा सूचना यांखाली असे आदेश देण्यासाठी सक्षम असलेल्या प्राधिका-याने दिलेल्या कोणत्याही आदेशांचे उल्लंघन करून कोणतीही इमारत उभारणार नाही

(बाबीस) ज्या जिमनीच्या संबंधात पट्टा देण्यात आला असेल त्या जिमनीतून मिळालेल्या गौणखनिजाच्या अंग्रक्रियाधिकाराचा हक्क नेहमीच शासनाचा असेल. परंतु अशा सर्व गौणखनिजांसाठी पट्टेदाराला अंग्रक्रयाधिकाराच्या वेळी प्रचलित असलेल्या रास्त बाजारभावानुसार किमत देण्यात गेईल

(तेवीस) राखीव असलेल्या पट्ट्याखाली भाडेपट्टयाने दिलेल्या जिमनीच्या खालून अथवा वरून कोणताही रस्ता, लोहभार्ग, कालवा, जलाशय किंवा सार्वजनिक बांधकाम करण्याचा राज्य किंवा केंद्र सरकारचा किंवा कोणत्याही स्थानिक प्राधिकरणाचा अधिकार किंवा कोणत्याही वीजेच्या किंवा टेलिफोनच्या तारा नेण्याचा किंवा खांब उभारण्याचा कोणत्याही प्राधिकरणाचा अधिकार राखुन ठेवण्यात येत आहे. परंतु अशा अधिकारांचा वापर करण्यापूर्वी पट्टेदाराला तीस दिवसांपेक्षा कमी नसेल एवढ्या कालावधीची नोटीस देण्यात येईल आणि उपरोक्त कोणत्याही प्रयोजनासाठी उपयोगात आणलेले क्षेत्र पट्ट्याच्या

(चोवीस) पट्टेंदार हा, (क) कोणत्याही विवृत्त उत्खननाची खोली ही त्याच्या उचीपासून सर्वात खालच्या बिंदपूर्यंत सहा मीटर पर्यंत पोचल्यास, किंवा (ख) सुरुंग स्फोटकांचा वापर केल्यास, आणि त्यानंतर जिल्हा दंडाधिकारी किंवा मुख्य खाण निरीक्षक यांनी निदेश दिल्यास, जिल्हाधिकारी, जिल्हादंडाधिकार, मुख्य खाण निरीक्षक धनबाद, महानियंत्रक, भारतीय खाण विभाग आणि त्या क्षेत्रातील संचालक अथवा वरीष्ठ भूशास्त्रज्ञ अथवा कनिष्ठ भूशास्त्रज्ञ यांना ताबड़तोब अहवाल सादर करील

(पंचवीस) पट्टेदार हा सक्षम अधिका-पाकडून लेखी सूचना प्राप्त झाल्यानंतर कोणत्याही ख-पाखु-पा शासकीय कामासाठी आवश्यक असणारी गौणखिनजे, पट्टाक्षेत्रातील उत्खनन केले नसलेल्या कोणत्याही सागातून स्वामित्वधन न घेता विभागाचे काम म्हणून शासनाच्या कोणत्याही विभागाला काढून घेण्याची परवानगी देईल. अशा कामाची व्याप्ती व त्या कामासाठी विशेष करून आवश्यक असलेल्या गौणखिनजाचे किवा खिनजांचे प्रमाण तक्षात घेरून असे लाभदायी शासकीय काम प्रमाणित करण्यास जो सक्षम असेल अशा कोणत्याही विशिष्ट भागांच्या कोणत्याही अधिका-याकडून लेखी व विशिष्ट विनंती प्राप्त झाल्यावर सक्षम अधिका-पाला अशी सूचना देईल. परंतु खाजगी जिमनीतील पट्टा देण्यात आला असेल तर, शासकीय विभाग, जिमन मालकाला, किवा पथास्थिती, पट्टेदाराला नुकसान भरपाईची रक्कम देईल.

(सच्चीस) पट्टेदार हा पट्टा क्षेत्राच्याबाहेर वाहतुकीच्या कोणत्याही साधनाने नेल्या जाणा-या गौणखनिजाच्या प्रत्येक निर्गत खनिजाबरोबर नमुना- ण मधील वाहतूक पास देईल.

(संलावीस) खाणकामामुळे जिमन दुभंगती गेल्यास कोणतीही जमीन दुभंगण्यापूर्वी पट्टेदार व खाजगी जिमनधारक यांनी परस्परसंमतीने आधीच ठरवलेली अशी नुकसानभरपाई ही पट्टेदार हा जिमनीच्या भूपृष्ठभोगवटादारास देईल. पट्टेदार या प्रयोजनार्थ खाणपट्टा विलेखाचे निष्पादन करण्याच्या वेळी, त्याने सर्व संबंधित जिमनधारकांबरोबर असे परस्पर करार केले आहेत आणि त्याने ज्या जिमनधारकांबरोबर करार केला नसेल तेथे, पट्टेदार, खाणकामांना सुरुवात करण्याच्या हेतूने अशा जिमनीचा करार करण्यासाठी, संबंधित उप विभागीय अधिका-याकडून तापुरता लेखी ओदशा प्राप्त केला आहे अशा आश्याचे शपथपत्र सादर करील. परंतु संबंधित उप विभागीय अधिकारी हा महाराष्ट्र जिमन महसूल संहिता, १९६६ च्या कलम ४८ च्या तरतुदीनुसार अशा प्रकरणाची त्याच्या न्यायालयात नोंद करील. परंतु आणखी असे की, संबंधित उपविभागीय अधिकारी,खाणपट्टयासंबंधीत भूपृष्ठ नुकसानभरपाईच्या अशा प्रकरणामध्ये प्राधान्याने आणि प्रकरणाचे गुणातगुण लक्षात घेऊन त्यामध्ये तडजोड करील.

(अञ्चावीस) जर कोणत्याही शासकीय जिमनीवर खाणपट्टा मंजूर करण्यात आला असेल तर पट्टेदार महसूल प्राधिका-यांनी ठरवल्यानुसार आणि निश्चित केल्यानुसार शासनाला नुकसाभरपाई आणि भोगवटा मूल्य देईल.

(एकोणतीस) पहेदार हा, पुढील अधिनियम व नियम यांच्या सर्व संबंधित तरतुर्दीचे. आणि अधिनियम व नियम या अन्वये केंद्र व राज्य शासनाने तयार केलेल्या संबंधित कार्यपद्धतीचे काटेकोरपणे पालन करील. (क) खाण अधिनियम १९५२. (ख) खनिज संरक्षण व विकास नियम १९८८. (ग) गौणखनिजांच्या संबंधाने केंद्र अथवा राजय शासन् वैळीवेळी लागू करील अर कोणताही अधिनियम व नियम

(तीस) (एक) ज्या जिसनीवर खाणपट्टा मंजूर केलेला असेल. ती जिसन पट्टेदा किंदून उपयोगेक्ष्म करण्यात येई ते (दोन) खाणकाम करण्यापूर्वी हा परिस्थितीकीय संतुलन पुनःस्थापित करीले (जीन) खाणपट्ट्याच्या क्षेत्राभोविष्टि पट्टेदार वृक्षांची लागवड करेल आणि त्यांची देखभाल करील. त्या भागातील हिरके हिकून राही (यासी को सुनिधिती) करील.

(एकतीस) (१) शासनाच्या गान्यतेच्या अधीन राहृन सक्षम प्राधिका याला इतर कोणत्या विश्वेष शर्ती विजिति के तायि यतील (२) वरील नियम (४६) (१) (एक) ते (एकतीस) याखाली विनिर्दिष्ट करण्यात आलल्या सतिवनी म्लेपूर्वित शर्तीच पट्टेदाराने किंवा त्याच्या हस्तांविरतीने किंवा अभिहस्तांकीतीने उल्लंघन केले असल्यास, सक्षम अधिकारी हैं। पट्टेदार किंवा त्याच्या हस्तांविरती, अभिहस्तांकीती याना नोटीशीच्या दिनांकापासून तीस दिवसांच्या आत अशा उल्लंघनाबाबत उपाययोजना करण्यात करण्यासाठी त्याला विचारणा करणारी लेखी नोटीस देईल आणि अशा कालावधीत उल्लंघनाबाबत उपाययोजना करण्यात आली नाही तर, सक्षम अधिकारी या नोटीशीचा कालावधी संपल्यानंतर लेखी आदेशाद्वारे, लागू असलेल्या ठोकंबंद भाउं दराच्या दुपटीइतक्या रकमेपेक्षा अधिक नसेल एवढी शास्ती आकारील व ती शास्ती असा आदेश दिल्याच्या दिनांकापासून आठ दिवसांच्या कालावधीत अरावयाची आहे. या विनिर्दिष्ट केलेल्या कालावधीत अशा प्रकारे लादलेल्या शास्तीचे प्रदान न कल्यास ज्या कालावधीत असे उल्लंघन करणे चालू राहीले असेल अशा कालावधीयर्यंत ठोकंबंद भाउंचाच्या दश्चतव्या रकमेचा अतिरेक्त दंड दरदिवशी आकारण्यात येईल आणखी असे की, अशी शास्ती आकारल्यानंतर असे उल्लंघन करणे चालू राहीले असेल तर, सक्षम अधिकारी, अशा नोटीशीच्या दिनांकापासून पंधरा दिवसांच्याकालावधीत अशा उल्लंघनाबावत उपाययोजना करण्यासाठी पट्टेदार किंवा त्याच हस्तांविरती किंवा अभिहस्तांकीती यांच्यावर अंतिम नोटीस बजावील आणि या नोटीसीचा कालावधी संपल्यानंतर देखील, अशा उल्लंघनाबाबत पूर्णपणे उपाययोजना केली नाही तर, सक्षम अधिकारी खाणपट्टा तात्काळ समाप्त करील आणि शास्तीच्या व दंडाच्या रकमेची वसुली जिंगन महसूलाची थकबाकी असल्याप्रमाणे वसूल करील

४७, पट्टेदाराचे अधिकार-

वरील नियम ४६ मध्ये नमूद केलेल्या शर्तीना अधरन राहन पट्टेदारास त्यांच्या खाणकामाच्या प्रयोजनाकरिता पुढील अधिकार असतील

- खाणकाम करणे, खाणीतील रस्ते खोदणे,
- 2. खड्डे, इंमारती व रस्ते बांधणे
- संयंत्रे व यंत्रसामग्री उभारणे,
- 4 त्याला खाणपट्टयाने मिळालेल्या क्षेत्राचा काही भाग, खाणपट्टयाच्या कालावधीत प्रत्यार्पित करणे भात्र पट्टेदाराने अशा प्रकारे स्वतःकडे ठेवलेल्या क्षेत्राचे स्वतःच्या खर्चाने पुन्हा सीमांकन करणे आणि क्षेत्रातील काही भाग प्रत्यार्पित करण्याच्या त्याच्या हेतूविषयी सक्षम अधिका-यास किमान सहा महिने आधी नोटीस देणे,
- 5. स्तामित्वधनाची रवकम दिल्यावर खोदकाम करुन, इमारती व रस्ते बांधण्याचे साहित्य मिळविणे आणि विटा बनविणे,
- 6. पाण्याचा वापर करणे
- ढीग तथार करण्यासाठी जिमेनीचा वापर करणे,
- पट्टयात विनिर्दिष्ट केलेली इतर कोणतीही गोष्ट करणे.

# ४८. खाणपट्टा समाप्तीचा अधिकार-

- 1. राज्य शासनाता नियम ४६ च्या तरतुर्दीनुसार खाणपट्टयांची समाप्तीकरता येईल
- 2. पट्टेदाराला, साठ दिवसांपेक्षा कमी नसेल इतक्या दिवसांची लेखी नोटीस सक्षम अधिका-याला देऊन व त्या नोटिशीत विनिर्दिष्ट कारणे नमूद करुन, कोणत्याही वेळी, खाणपट्टा समाप्त करता येईल. परंतु पट्टेदाराने दिलेल्या कारणांसंबंधात सक्षम अधिका-याची खात्री पटली आणि उक्त नोटीशीचा साठ दिवसांचा कालावधी संपण्यापूर्वी पट्टेदाराने अशा समाप्तीसाठी त्याची समती दिली तरच अशी समाप्ती अंमलात येईल.

पध्दतशीर व शास्त्रशुध्द खाणकाम

४९. पर्यावरणाचे रक्षण-

ज्या क्षेत्रासाठी असे लायसन किवा खाणपट्टा देण्यात आला असेल त्या क्षेत्रातील गौण खनिजाचे पूर्वेक्षण, खाणकाम किवा Page 6 of 7 गौण खनिजावर प्रक्रीया करीत असताना पत्यक पूर्वेक्षण लायसनधारक किंवा खा ।पट्टाधारक त्या क्षेत्रातील पर्यावरणीय वन्यजीत अधिवास, वनस्पती व प्राणी जीवन यांचे रक्षण आणि प्रदूषण नियंत्रण यासाठी शक्य ती सर्व खबरदारी घेईल

र । जिथे पृष्ठीय मृदा असेल व ती गौणखनिजाच्या पूर्वेक्षणासाठी किंवा खाणकामासाठी, उत्खनन करावयाचे असेल तेथे

2. अशाप्रकारे काहून टाकलेल्या पृष्ठीय मृदेचा वापर हा पूर्वेक्षण किंवा खाणकाम यांसाठी ज्या जिमनीची यापुढे आवश्यकता नर्सेल ती जमीन पूर्ववत करण्यासाठी किंवा ती पूर्वस्थितीत आणण्यासाठी किंवा बाहयं दिगा-यांचे सपाटीकरण किंवा भ्रहश्य करण्यासाठी करण्यात येईत

3. जेथे पृष्ठीय मृदेचा वापर एकाच वेळी करता येऊ शकत नसंल तेथे आणि त्यातील जीवाणू मरु नयेत आणि ते जवळपासच्या क्षेत्रात पसरावेत हे लक्षात घेऊन ती भविष्यकालीन उपयोगासाठी स्वतंत्रपणे साठवली जाईल.

4. अशा प्रकार काहून टाकलेल्या पृष्ठीय मृदेचे जवळच्या वन जमिनीवर कोणतीही असल्यास दिगारे टाकण्यात येणार नाहीत, ती साठवून ठेवली जाणार नाही किंवा ती टाकली जाणार नाही.

५१. वृथावरण टाकाऊ खंडक (त्यादीचा साठा करणे-

1. गौणखनिजांचे पूर्वेक्षण किंवा खाणकाम करताना तयार होणारे वृथावरण टाकाऊ खडक आणि विक्री योग्य नसतेले गोणखनिज हे त्यासाठी राखून ठेवलेल्या जमिनीवर योग्य आकाराचे ढीग करून स्वतंत्रपणे साठवण्यात येईल आणि जवळपास वनजमीन असल्यास तेथे त्याचे द्विगार करण्यात येणार नाहीत, त्याचा साठा करून ठेवण्यात येणार नाही.

अशा ढिंगा-यातून धोकादायक प्रमाणात पदार्थ वाहून गेल्यामुळे भोवतालच्या जमिनीची प्रत खराब होणे किंवा

पाण्याच्या प्रवाहात गाळ साठणे अशा गोष्टी घड् नयेत यासाठी ते दिगार योग्य प्रकारे बंदिरत करून ठेवण्यात येतील जिमन तिच्या मूळ वापरासाठी किंवा शक्यतेथवर इष्ट असतेत्या पर्याची वापरासाठी करण्याच्या दृष्टीने जेथे इप्टतम खोलीपर्यंत गौणखनिजांचे उत्खनन करण्यात आले असेल तेथे असे टाकाऊ खडक किंवा वृथावरण किंवा उपयोगी नसलेले पदार्थ यांनी गौणखनिजे काढलेल्स्न खाणींमध्ये पुनर्भरण करण्यात येईल, आणि जेथे पुनर्भरण करणे शक्य नसेल तेथे. टाकाऊ पदार्थाच्या योग्य प्रकारे पाय-या करून व वनस्पतीची लागवंड करून अन्यथा, तिचे सपाटीकरण

५२. जिमनीचे वर भराव टाकणे व ती पूर्ववत करणे.

1 पूर्वेक्षण व खाणकामामुळे ज्या जमिनीवर परिणाम झाला असेल त्या जमिनीचे टप्प्याटप्प्याने पुनर्भरण करण्याचे, तिच्यावर भराव टाकण्याचे व ती पूर्ववत करण्याचे काम प्रत्येक पूर्वेक्षण लायसन्धारक आणि खाणपट्टाधारक हाती घेईल आणि अशी कामे पूर्ण होण्यापूर्वी आणि पूर्वेक्षण किता खाणकाम सोडून देण्यापूर्वी काम पूर्ण करण्यात येईल.

2 जेथे छोटपा खाणी मोठया प्रमाणावर आहेत आणि त्यांचे गटाने उत्खनन करण्यात येत असेल तेथे, गौणखनिजांच्या संबंधातील तरतुदी, पध्दतशीर व शास्त्रीय पध्दतीने करण्यात येतील. गौणखनिज खाणीच्या संपूर्ण गटामध्ये खाणकाम सोडून दिलेल्या क्षेत्रात, उत्खनन केलेल्या क्षेत्राचे पुनर्भरण व त्यावर भराव टाकण्याचा कार्यक्रम व ते क्षेत्र पूर्ववत करण्याचे काम एकत्रितपणे टप्प्याटप्प्याने केले पाहिजे पट्टेदार किंवा त्यांच्या गटाने पर्यावरणविषयक मान्यता

५३. हवेचे प्रदूषण होवू नये यासाठी घ्यावयाची खबरदारी-

गौणखनिजांचे पूर्वेक्षण, खाणकाम किंवा त्यावरील प्रक्रीयेचे काम व त्याच्याशी संबंधित कामे करत असताना बाहेर टाकली जाणारी धूळ, धूर किंवा धुर्के इत्यादींमुळे होणारे हवेचे प्रदूषण, त्या त्यावेळी अमलात असलेल्या पर्यावरणविषयक कायद्यांमध्ये विनिर्दिष्ट केलेल्या अनुज्ञेय मर्यादेच्या नियंत्रणात व त्या गर्यादेच्या आत ठेवण्यात येईल

गौणखनिज खाण, कारखाना किवा त्यावर प्रक्रिया करण्याचा कारखाना येथून भूजल स्त्रोतामध्ये किवा वापरात येण्याज्ञोग्या जमिनीच्या पृष्ठभागांवर सोडलेल्या सांडपाण्याची विल्हेवाट लावताना, प्रत्येक पूर्वेक्षण लायसनधारक व पट्टाधारक हा, त्यात विषारी किंवा आक्षेपार्ह पदार्थ राहणार नाहीत किंवा कमीत कमी राहतील यासाठी शक्य अणी सर्व खबरदारी घेईल् या संबंधात विहित केलेल्या प्रमाणकांशी हे सांडपाणी अनुरुप असेल आणि ते जवळपास वनजमीन असल्यास, तेथे हे सांडपाणी वाहत जाऊ दिले जाणार नाही.

५५. ध्वनिप्रदूषण होवू नये यासाठी घ्यावयाची खबरदारी-

प्रतिक पूर्वेक्षण लायसन्धारकाकड्न किवा पट्टेदाराकडून गोणखनिजांचे पूर्वेक्षण, खाणकाम किवा त्यावर प्रक्रिया करत असताना त्यातून निर्माण होणारे ध्वनीप्रदूषण हे अनुश्चेय मैयदिच्या आत राहीत यासाठी त्याच्या उगमस्थानी ते कमी करण्यात येईल किवा त्यावर नियंत्रण ठेवण्यात पेईल.

५६ अनुज्ञेय मर्यादा व प्रमाणके-

वरील नियम ५३ ५४ व ५५ मध्ये उल्लेख केलेली सर्व पद्भवके, विषारी पदार्थ मुहुर्जूनी यांची अनुनोय मर्यादा व प्रभाणके ही. संबंधित प्राधिकरणाकडू न प्रस्तुत संविधीमध्ये वेळोवेळी केलेल्या तरतुदीन्वये अधिभूचित करण्यातः(येतील. ५७ वनस्पतीचे पनः स्थापनः

प्रत्येक पूर्वक्षण लायसनधारक किवा खाणपट्टाधारक हा.

(एक) पूर्वेक्षण तायसन किया खाणपट्टयाखातील क्षेत्रात व तगतच्या भागात असणाऱ्या वनस्पते कियीत कभी हानी होईल अशाप्रकारे पूर्वेक्षण किवा यथास्थिती खाणकाम करील

(दोन) कोणतेही पूर्वेक्षण किंवा खाणकामामुळे जेवढी झाडे नष्ट झाली असतील त्याच्या दुपटीपेक्षा कमी नेसामिन इसकी शाह त्याच क्षेत्रात किर्वा संबंधित प्राधिरकण, पर्यावरण किवा वन मंत्रालयाचे प्रादेशिक कार्यालय किवा प्राधिकृत अधिका-याने निवडलेल्या इतर कोणत्याही क्षेत्रात लावण्यासाठी ताबडतोब उपाययोजना करील

(तीन) लायसन आणि खाणपट्टा चालू असेपर्यंत या झाडांची निगा राखेल, त्यानंतर ती झाडे वनखात्याला किंवा राज्य शासनाने नामनिर्देशित केलेल्या इतर कोणत्याही प्राधिकरणाकडे सुपूर्द करील.

(चार) पूर्वेक्षण किंवा खाणकाम यामुळे नष्ट झालेल्या वनस्पतीचे शक्य असेल तितक्या प्रमाणात पुनःस्थापन करील.

५८. जिल्हा खनिज विकास प्रतिष्ठान (DMFs)-

खाण व खनिजे विकसन व विनियमन (सुधारणा) अधिनियम- २०१५ च्या तरतुदीनुसार गठीत करण्यात आलेल्या जिल्हा खनिज विकास प्रतिष्ठान (DMFs) अंतर्गत अस्तित्वात असलेल्या गौण खनिजाच्या खाणपट्टाधारकांनी स्वामित्वधनाच्या १०% आगावू रक्कम शासनजमा करणे बंधनकारक आहे.

> (मंगेश जोशी) अपर जिल्हाधिकारी सिंधदर्ग

ROLHAPUN

१) श्री कृष्णा वासुदेव कुंडणेकर, रा. भेडशी- तीसवाडी, गोवा प्रत-

२) उपविभागीय अधिकारी, सावतवाडी यांना माहितीसाठी व आवश्यक त्या पुढील कार्यवाहीसाठी.

3) तहसीलदार सावंतवाडी यांना माहितीसाठी व आवश्यक त्या पुढील कार्यवाहीसाठी

अ/- निष्पादनानंतर खाणीच्या जागेचा ताबा खाणपट्टा धारकास देऊन ताबेपावतीसह अहवाल सादर करावा.

•ब/- खाणपट्टा धारक या आदेशातील अटी व शर्ती तसेच गौण खनिज उत्खनन नियमांचे पालन करतात किंवा कसे ते पाहावे

क/- त्यांनी स्वतः वर्षातून एकदा खाणपट्टा क्षेत्राची व लेख्याची तपासणी करून खाणपट्टाधारक नियमानुसार खाणकाम करून सर्व शासकीय देणी वेळच्या वेळी भरणा करतात वा कसे याबाबतही तपासणी करावी.

४) मंडळ अधिकारी आजगाव, ता. सावंतवाडी यांना माहितीसाठी व योग्य त्या कार्यवाहीसाठी. ५) तलाठी सजा मळगाव, ता. सावंतवाडी यांना माहितीसाठी व योग्य त्या कार्यवाहीसाठी.

६) उपअधीक्षक भूमी अभिलेख, सावंतवाडी यांचेकडे आवश्यक त्या पुढील कार्यवाहीसाठी.

२/-संबंधितांकडून वरील पार्त क्र. आठ नुसार खाणपट्टयाच्या क्षेत्राची मोजणी करूत्र त्या क्षेत्राचे सीमांकन

करणे बाबत योग्य ती कार्यवाही करावी.



अपर जिल्ह्नां कारी सिंधुदुर्ग

nature xalid signed by MA GESH 04:19 IST

V. P. NOVare

VIVEK P. NAVABE Technical Quantied Person

# HUBERT ENVIRO CARE SYSTEM PVT.LTD

18,02*** Street, 18** Avenue, Ashok Nagar, Chennal-600083 Contact No.942327809,09766920279, 09422442756

Date:-15/6/2017

To The District Mining Officer, Sindhudurg, Maharashtra.

Subject:-2nd Meeting of DEAC Sindhudurg Dt:-16/2/2017. 2nd Meeting of DEIAA Sindhudurg Dt:-16/5/2017.

With reference to the above subject, the DEIAA Sindhudurg has granted Environment Clearance to the following Stone Quarry.

SR No.	Name of Quarry	Land Type Pvt./ Govt.	Taluka	Village	Gut No	Area (Ha)
1	M/S Sai Metals, Partner - Mr. Nilesh Gurudas Naik	Pvt.	Sawantwadi	Vetye	93/10,93/11,93/12 & 93/13 Part	1.23

Thanking You,

Yours Faithfully, For Hubert Enviro Care System Pvt.Ltd

> V.P.Ma EIA Coordinator

# District Environmental Impact Assessment Authority

File No. खनि- 2102/1/2016- COLL MIN Office of the District Collector, Sindhudurg Sindhudurgnagari, Tal-Kudal Dated-3rd June, 2017

Sadekar Enviro Englueors Pvi. Ltd., 310, Dempo Towers, EDC Patto, Panall, Gon- 403 001

2) Prashil Shukla, Enviro Techno Consult Pvt. Ltd., 123, Mahatma Gandhi Nagar, Hudkeshwar Road, Nagpur-24

Hubert Enviro care systems Pvt. Ltd., 18, 92rd Street, 18th Avenue, . Ashok Nagar, Chennai- 600 083

(1)

# Subject- Grant of Environmental Clearance (EC) to Jambha & Basalt stone quarries proposals.

Reference- i) 2nd Meeting of DEAC, Sindhudurg dated- 16/02/2017 ii) 2nd Meeting of DEIAA, Sindhudurg dated- 16/05/2017

This has with reference to communication on above mentioned subject, the proposal was considered as per screening category of 1(a) B2 of EIA notification 2006, by District Expert Appraisal Committee, Sindhudurg in its I" meeting and decided to recommend the Stone Quarry proposals listed below for prior environmental clearance to DEIAA subject to conditions. Information and compliance submitted by project proponent / applicant has been considered by District Impact Assessment Authority in its 2s meeting.

DEAC in its above said meeting considered total 50 proposals of stone quarry from the District and recommended 45 proposals. As per list furnished for stone quarry proposal with satisfying conditions of DEAC & DEIAA are listed below:

# LIST OF STONE QUARRIES PROPOSLS

District : Sindhudurg

Sr. No.	Name of Project Proponent	Village	Taluka	Survey / Gat No./ Mineral Name	Area in hector
<del>_</del>	2	3	4	5	6
ı	Mr. Shrikant R. Kesarkar	Mangeli	Dodamarg	266/1 P & 268/1P	4.80
<u> </u>				Basalt	4.80
2	Mr. Appa Sandipan Kharat	Asrondi	Malvan	<del></del>	<u> </u>
			TAYOTA GILL	136/1	4.35
3	M/s. S Kumar Associates	Kudase	Dodon	Jambha	
			Dodamarg	59/1, 59/5	3.03
4	Mr. Vasant Shantaram Padte	Jambharmala	Waste 1	Basalt	3.03
			Kudal	34/27	0.42
5	Mr. Bhikaji Vasant Jethe	Kinjwade	-	Basalt	0.42
	<u> </u>	1	Devgad	254/2	<del></del>
5 T.	Mr. Deepak Vitthal Jethe	Kinjwade		Jambha	2.20
		vruilwage	Devgad	305/1	
				Jambha	1.50
			<u> </u>	Jantona	""

7	Mr. Sameer Madhukar Ghadi	Kinjwade	Devgad	Jambha	
8	Mr. Sanjay Yashwant Bodekar	Kinjwade	Devgad	258/1 Jambha	1.0
9	Mr. Sunil-Chandrakant Ghadi	Kinjwade	Devgad	319/1 Jambha	1.00
10	M/s Omtek Associates	Torsole	Devgad	84/1 Jambha	2.00
11	Mr. Hemant Ganpat Desai  Mr. Baban Raghunath Bodekar	Vareri	Devgad	1644 & 1643 Р Јанъвна	2.08
12	Mr. Narayan Motiram	Chandoshi	Devgad	1135/2 Jambha	1.46
13	Hindalekar Mrs. Neha Nitin Talekar	Gavane	Devgad	1802/2B Jambha	2.19.
14	Mr. Santosh Ramakant Talekar	Gavane	Devgad	720 Jambha	1.50
15	Mr. Pradeep Janardan Talekar	Gavane	Devgad	96 Jambha	2.34
16	Mr. Prakash Dhondu Shirsekar	Patgaon	Devgad	75/2 Jambha	1.80
17	Mr. Sunil Vishnu Palekar	Pendhari	Devgad	119/2A Jambha	1.54
18	<b>5</b> 11	Rahateshwar	Devgad	20-2/3,21-3/2 Jambha	1.11
19		Chauke	Malvan	44/2 Jambha	1.00
20	Mr. Subhash Chandrakant	Chauke	Malvan	44/2 Jambha	1.00
21		Waghwane	Malvan	5/11 Jambha	1.00
22	M/s Goodluck Metal Industries Managing Partner- Mr. Mushtak Shekh Affamad	Parame	Dodamarg	90/0 Basalt	3.00
2	M/s Venkatram Infra Project Pvt Ltd. Mr. Muppanna Ramkrushna	Parame	Dodamarg '	103/1 & 104/1 Basalt	4.00
2	Prasadrao  M/s Omtek Associates	Ombal	Devgad	462 Rosalt	2.00

1	35	Mr. Digambar Shridhar Patil	Vengsnr	Valbhaywadi	Jarublin	2.00
1	36	Mr. Babu Tukaram Chavan	Somlowadl	Devgad	Introblut   115/9(B) (part)	1.50
	37	Mr. Mahesh Madhukur Rane	Asrondl	Molvan	Janibha 148/1 (part)	1.50
	38	Mr. Shivaji Prataprao Palav	Asrondi	Malyan	Jambha 72, 73/5 & 73/11	3.84
	39	Mr. Skidheshwar Venkareddy Klaur	Vetye	Sawantwadi	(part) Basalt	2.00
	40	Mr.Siddhesghwar Venkareddy Kimur	Somrli	Sawantwadi	29/2,29/8 & 29/9 Basnit	1,58
	41	Mr. Dinesh Ramesh Sarang	Vetye	Sawantwadi	95/4 Bosult	2.21
	42	Mr. Amit Vasant Shetgaonkar	Vetye	Sawantwadi	95/1 Part Basalt	2.05
	43	Mr. Amar Madhu Padte	Vetyo	Sawantwadi	102/4 Part Basalt 93/10,93/11,93/12	1.23
	, da	M/s. Sai Metals, Partner- Mr. Nilesh Gurudas Naik	Vetye	Sawantwadi	93/10,93/11,93/12 & 93/13 Basalt	
	45	Mr. Arun Bhiva Gawas	Vazare	Dodamarg	87/5 Basalt	1.00

DEIAA in its 2" meeting considering the recommendations of DEAC has decided to accord the prior environmental clearance to above mentioned independent minor mineral stone quarries which may be consider as the separate EC being issued under the provisions of Environmental Impact Assessment Notification 2006 subject to implementation of the following terms and conditions.

#### > Specific Conditions:

- 1. Quarrying allowed only in the recharge zone of hills, not in run off or storage zone. For this purpose, GSDA should be involved to carry out intensive geophysical survey to identify such recharge zone where quarrying can be allowed.
- The mining plan shall be approved first before initiating any mining operations.
- Discharge of sewage from quarry site should be strictly controlled.
- 4. The stone quarry to maintain the benches of 60° slope in the cut, 6m depth in cut and 6m for the bench.
- 5. No dumping of material shall be allowed in the water resources or Nallas.
- 6. No quarry should be allowed in within safe distance from any habitation or human activity,
- 7. After mining extraction is completed, the existing pits on site must be filled up and the closure must be supervised and certified by Sub-division officer or Tabsildar of respective Taluka.
- 8. Provisions stipulated in Maharashtra Minor Minerals Extraction (Development & Regulation) Rules 201 shall be strictly adhered to.
- 9. Project Proponent will be held responsible personally for non compliance of conditions stipulated in environmental clearance and shall be liable for legal action under Environment Protection Act of 1986.
- 10. District collector/authority shall take bank guarantee of Rs. 2.00 lacs or up to 2% of annual roya whichever is higher for given lease from lease holder to ensure the compliance of the conditions stipulate In case of any violation of stipulated conditions by project proponent bank guarantee so obtained shall forfeited and legal action under law should be implated against such project proponent.
- 11. It shall be ensured that there is no fama dependent on the areas close to mining for its nesting. 12. To prevent dust /PM pollution, the lease holder shall take up tree plantation in an area 7.5m from bound of the leased area and also either side of road leading to the quarry from surface road.

District authorities and Project Proponent to ensure that there is no violation of Supreme Count of

District authority shall ensure that no quarrying shall be carried out in forest/zudpi jungle,

No water sources shall be affected due to quarrying activity,

- No water sources shall be allected and to quarrying and shall project proportent to implement approved progressive mine closure plan during quarrying and shall project proportent to implement approved progressive mine closure of quarrying activity.
- All labor engaged in quarry shall be provided with protective gears like masks, helmets, safety boots etc.
- All labor engaged in quarry small be provided in a scriptly scan and registration number so generally. District anthority to ensure that every receipt given is scribilly scan and registration number so generally must be written on such receipt to avoid duplication and unauthorized transportation of stone.
- ). Project proponent to ensure that vehicles transporting stone should not be overloaded beyond stated
- ). Project Proponent has to submit compliance of EC conditions to district authorities and DEIAA at the start of mining operations and half yearly on regular basis.
- 1. Project proponent will be held responsible personally for non compliance of the conditions stipulated in the environmental clearance and shall be liable for legal action under Environment (Protection) Act of 1986.
- 2. Transportation of material shall be done by covering the trucks / tractor with tarpaulin or other suitable mechanism so that no spillage of mineral/dust takes place.
- 23. The lease holder shall undertake adequate safe guard measures during excavation of materials and ensure that due to this activity, the hydro geological regime of the surrounding area shall not be affected.
- 24. The depth of quarrying shall be above the level of aquifers to avoid the contamination/degradation of wate quality of aquifers.
- 25. Regular monitoring of ground water level and its quality shall be carried out around the mine lease are during the mining operation. If at any stage, it is observed that the ground level table is getting depleted du to the mining activity; necessary corrective measures shall be carried out. District authority shall ensur
- 26. Effective safeguards, such as regular water sprinkling shall be carried out in critical areas prone to a pollution and high levels of particulate, matter such as loading and unloading point and all transfer point Water sprinkling shall also be carried out on haul roads. It should be ensured that the Ambient Air Quali parameters confirm the norms prescribed by Central Pollution Control Board in this regard. The status implementation of measures taken shall be reported to DEIAA and Environment Department, Governme
- 27. This environmental clearance is issued subject to obtaining NOC from forestry & wild life angle include clearance from standing committee of the National Board for Wild Life as if applicable and the environment clearance does not necessarily implies that Forestry and wild life clearance granted to t project which will be considered separately on merit by competent authority.

# General Conditions:

- 1. Precise mining area will be jointly demarcated at site by Mining/Revenue department prior to mini operations for all proposals under consideration. Such site plan duly verified by competent author shall be submitted to Environment Department.
- All necessary statutory clearances shall be obtained before start of mining operation.
- Mining shall be limited to day hours time only. The loading shall not be done during night hours. No mining shall be circled out in the safety zone of any bridge and/or embankment.
- 5. No mining shall be carried out in the vicinity of natural/manmade archeological site.

  6. The same small be carried out in the vicinity of natural/manmade archeological site. 6. The lease holder shall obtain necessary prior permission of the competent authorities for drawl
- requisite quantity of water (surface water and groundwater), if required for the project Waste Water if any shall be properly collected so as to conform to the standards moder/CPCP 8. No wildlife habitat .....

- 9. Environmental clearance is subject to obtaining clearance under the Wildlife (protection) Act, 1972
- 10. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with fife local DFO/Horticulture officer.
- 12. Transportation of material shall be done by covering the trucks / tractor with tarpaulin of other suitable
- 13. Appropriate mitigative measures shall be taken to prevent any kind of pollution in consultation with the Maharashtra Pollution Control Board. It shall be ensured that there is no leakage of oil and grease, from
- 14. Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vebicles carrying the mineral shall not be
- 15. Special Measures shall be adopted to prevent the nearby settlements from the impact of mining activities. Maintenance of road through which transportation of minor minerals is to be undertaken shall be carried-out regularly.
- 16. Dispensary facilities for fist-aid shall be provided at site.
- 17. Occupational health surveillance program of the workers should be undertaken periodically.
- 18. Provision shall be made for housing the workers at site if required, with all necessary infrastructure and facilities such as fuel for cooking, safe drinking water, medical health care and sanitation etc.
- 19. Ambient air quality will be monitored at the site and the nearest habitation in the months of January, April and November, Ambient air quality at the boundary of the precise mining area shall conform to the norms prescribed by MoEF, GOI.
- 20. Measures shall be taken for control of noise level to the limits prescribed by CPCB.
- 21. An environment audit shall be annually carried out during the operational phase and be submitted to the
- 22. Digital processing of the entire lease area in the district using remote sensing technique shall be done regularly once in three years for monitoring and report submitted to the Environment Department.
- 3. Revenue Authorities shall submit within 3 months their policy toward address (i) standard operating process procedure to bring into focus any infringement / deviation / violation of environmental norms / condition, (ii) Hierarchical systems or Administrative order to deal with environmental issues and ensuring compliance of EC condition and (iii) systems of reporting of non compliance/ violation of environmental norms to the District collector.
- Project Proponent shall submit six monthly reports in hard and soft copy on the status of compliance of the stipulated environmental clearance condition including results of monitored data (both in hard & soft copies) to D.E.I.A.A., the Environment Department and the District Collector, the respective Regional Officer of the Maharashtra Pollution Control Board.
- Any change in mining area, khasra / Gat numbers, entailing capacity addition with change in process and of mining technology, modernization and scope of working shall again require prior Environmental Clearance as per provisions of EIA Notification, 2006 (as amended).

DEAC appraised the proposals on the basis of information submitted by concerned Project Proponent; it should be published in two local language newspapers and each block where mining operation is proposed. Member Secretary-DEAC/DEIAA should ensure this and submit compliance report to Invironment Department with approval from collector.

ce this clearance does not give immunity to the project pri

unent and non compliance of stipulated conditions and or suspend the environmental clearance without any intipler Environmental (Protection ) Act 1986.

eserves the right to add any stringent conditions or to revoimplemented to the satisfaction of the department or fc ion.

the project proposed from those submitted to this department to assess the adequacy of conclenion lenvironmental protection measures required, if any

ed among others under the Water (Prevention and Control and Control of Pollution) Act 1986 and rules there in andling) Rules, 1989 and its amendments, the Public Liab

reviewed by the SEIAA without prejudice to any provisi st the environmental clearance shall lie with National Graw Administrative Building, 1st floor, D-Wing, Oppos 0 days as prescribed under section 16 of the National Graw

to the stone quarries proposal received to the distri

(Uday Chaudhari) Chairman-DETAA, Sindhudurg

rrigation Minor Projects & Chairman DEAC, Sindhudurg ovt. of India, Indira Paryavaran Bhavan, Jorbaugh road, partment, Govt. of Maharashtra & Chairman SEIAA, Department, Govt. of Maharashtra, Mumbai.

#### STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SHAC-261 (CR. (FC-2) incomment department. Herea M.) 177, 2 f. Soor, Oberta, J., America, Stanford 9/10/92. Date: KT. August, 2016

Ta, Collector, Sindhudurg Office of the Collector, Sindhudurg,

SubjectiEnvironmental clearance for stoneproposals,

Sir

This has reference to the communication on the above mentioned subject. The proposal was considered as per the screening enterpost of TraiB2 of EIA Notification - 2006, by the State Level Expert Appraisal Communeed, Mahamshira in as 10 Proceding and decided to recommend the stone proposals listed befow for prior environmental afeatures to SELAA subject to verificious, information submitted by you Mining Officer has been a mediated by Screenest Environment Impact Assessment Authority In 18602 meeting.

2. SEAC-I in its abovesaid meeting considered total 09proposals of Stonequary from the District and recommended@privbosals. As per the family of by District Mining Offices.

2004 For the Proposition is not be 100 for the A Note of Contraction.

#### Brief Information submitted by the Mining Officer is as below:

	Name of the Lease Proposed		ī			the or faces
13	Antenia Sequeira	321, 32/3	Kshetrapitai	Sangalwadi	4.50	Par Land
2.	Doğum 19.8 Gener	\$938	11.5	William F		institution of
š.	Oran M. Danie 1934 odvica	ind) A "	North	Desput	0.54	Post to
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5	Vincy al Bhalchand LeAvingkar	::::	Willen	- Dosquis	2.80	Bilan

ś	Brownstikskekek Saa	\$65	(Way ba)	No.44	130	[*, [ ] .s[
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į.	LaxmanMahadevS alvi	19/1C	Mondpur	Devgad	3.00	Perland
9:	MilioJVithalSatam	99/1	Torsole	Devgad	3.93	Pvt. Land
. 19		Sarvey 562 213 Hissa No. 14, 1/201, 1/3A, 1/4A, 1/5A, 1/7A		Oce pud	SS CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACT	Pst. Land
	Kiranillarislachundr allembuikar	2587	Kinjawade	Designd	1.80	Pvr. Land
12.	Sandoopl findalekar	2561	Kinjawade	Desgad	4.86	Per Land

3. SHAA in its 19th meeting considering the recommendation of SFACA has decided to accord confrommental characters to the above month and independent minor invarial propes, by which may be consider us the separate EC being issued under the provisions of Profrontiant triplet Assessment Neutrication, 100a subject to involvementate a of the following terms and a sections. So the Copera Assessment and providing the control of the following terms and a sections. So the Copera Assessment and great as a consideration of the following terms and a sections.

#### Specific conditions:

- Quarrying allowed only in the recharge zone of fulls, not in run off or storage zone for this purpose. GSDA should be involved to carry our intensive geographical survey to identify such recharge zone where quarrying can be allowed.
- 3. The mining plan shall be approved that bed remidfuling any mining operations.
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- The granus are unit in thinkbusing the equilibrium \$100 may find a lateral to in \$100 mag.
   Proofs
- 5. No damping of material shall be allowed in the water coences of Nallac
- 6. The Collector shall obtain the lost of attandancel quarries in the District and prepare restoration plan for the same. In future, applications for the EC for sparties will be available of only if the restoration plan of althodosical and quarries exhibited.
- 2. No quanying should be advised in the run of Control helly areas.

- 24. The District Collector by prepare viscous plan and get it approved by the computent according to all a scalared punc- in the District.
- 23. District Collection of Outroo Volley effects where softenesses the period of the conditions stipulated in the Environmental clearance and shall be liable for legal action under Environment (Protection) Act of 1985.
- 26. Transport of stone should be by vehicles which are properly covered with Turpaulin and it should not be overloaded.
- 27. The lease holder shall undertake adoquate safegrand measures during extraction of material and ensure that due to this activity, the hydrosycological regime of the surrounding area is not affected. The depth of grarrying should be above the levels of aquifers to avoid the contamination; degradation of water quality of aquifers. Regular manitoring of ground water level and quality shall be corried out around the mine lease area during the mining operation. If at day stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary convertive measures shall be carried out. District Collector mining officer shall course this.
- 28. Proteine safegousts, such as regular materists richary shall be carried a trained trained and across protein to some indigental having high toxers of proportion quarter tools of halling and unboating point and all transfer points. Writer sprinkling shall also be carried out on hauf roads, it should be ensured that the Ambient Air Quality parameters conform to the norms processed at a first trained of an elegantic order of the state of the programment of the state of an elegantic order of the state of the state of the state of the state of the programment of the other processes and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o
- 29. This environmental clearance is fested subject to obtaining NGC from Porestry & Wild-life angle including clearance from the squading contribute of the Nettonal Board for Wild into as at applicable & this environment clearance does not necessarily amplies that Porestry & Wild life clearance granted to the project which will be considered aeparately on ment.

#### General estationers

- 4. Here's a bring line was the pointy line line of the my still will stand there's a special value of the most provide taken a miserative. Such the plan, day venified by computent unifority and he substituted to Environment Department.
- 2. All necessary statute of cheminices shall be obtained before ment of mining operations.
- C. Mining: leading shall be limited to day hours' time only. The quarrying leading shall not be done during right nodes.
- 4 No mining shall be carried out in the safety cope of any midge and/or enclambation.
- No minimum shall be corried out in the stance; I all this manned employing part of sea.

- 6 The lease holder shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if required for the project.
- Waste water, if any, shall be properly collected and recated, so as its conform to the standards perscaled by McCF CPCB.
- z. No wildlife habitat will be infringed.
- 5 Environmental clearance is subject to obtaining elevance under the Wildlife (Protection) Act; 1972 from the competent authority, if applicable to this project.
- in Green helt development shall be carried out considering CPCB guidelines including selection of plant species in consultation with the local DFO Entitigation (Officer.)
- 15. Parking of validates should not be made on public places.
- 12 Transportation of materials shall be done by covering the tracks i tractors with responding or other suitable mechanism so that no spillage of mineral data takes place.
- 4) Appropriate mingation measures shall be taken to prevent any kind of pollution in consultation with the Maharushira Pollution Control Board. It shall be ensured that there is no lenkage of oil and grease from the vehicles used for transportation.
- 14. Vehicular emissions shall be kept under control and regularly monitored. The materal transportation shall be carried out through the control tracks only and the schools and play the material shall not be exactly add.
- 13 Special Measures shall be adopted to prevent the nearby sculements from the impacts of mining activities. Maintenance of roads through which transportation of minor initiers/S is
- in the property dustrales is the wilds that he provided at their
- 17 Occupational funds susceptiance program I the winkers decail be windertaked periodically.
- re Provision shall be unade for huming the workers at the if happined, with all necessary infrastructure and facilities such as fact for cooking, safe drinking water, medical health case and smitation etc.
- 49 Applied all equality will be muslered at the literath fear threat habitation in the months of the ways Applitude News after Darkert and pairway flavors that past it to the earth mining and small control to a term or presented by MATRAGA.
- 24. Movement from the taken the court for police has its traine hours provening the CICB.
- 2) An Environmental Andh shall be annually carried out during the operational phase and be summed to the Unvironment Department.

- 22. Deciral primer sing of the entire leave area in the district using narrang sensing technique that we desire regularly sense in these years for its smalling and my real probabilithe Berlindment Department. The finals currentled for productional probabilities of the shall be kept in separate account and shall not be diverted for other purpose. Your wise expenditure on environmental protection measures shall be reported to the Regional Office. Ministry of Environment and Forests, Bropail.
- Revenue Authorities shall solution within 3 months their policy or (i) Standard operating process procedure in being into to as any orthogenism deviation of environmental norms. Sendations, (ii) Hierarchical system or Administrative order to deal with environmental issues and to ensure compliance of EC conditions and (iii) System of reporting of non-compliance/violation of environmental norms to the District collector.
- 24. The Mining officer shall submit six monthly reports in hard and soft copy on the status of couppliance of the aipulated environmental clearance conditions including results of monitored data rooth in hard & net copiest to the Europeanum Department, and the Director Collector and the respective Regional Office of the Maharasinta Politician Control thand.
- 15. Any charge in coming area, blacks 'Coll numbers, enturing capacity address in with charge in process and or mining technology, modernment and scope of working shall again require prior Environmental Clearance to the provisions of FEV Northeaton, Infin. do.
- 26. The proposals has approved on the bads of innormal a submitted by concerned which Mining Officer. Mining Officer shall submit the fist of blocks satisfying conditions stipulated above to Research & Environment dept. The list of blocks and conditions stipulated above shall be made available in public domain. It should be published in two stipulated above shall be made available in public domain. It should be published in two beat horstoody recognition is proposed. Postuct uniting officer should ensure this and submit completes expert to look in most deptations with order with the fit of littles.
- 4. Conditions stipulated by SEACA and SELAN has fobe enoughed with.
- 5. The LC assued to the proposals on the bods of information submated by concerned District Mining Officer/Mining Officer shall submit the list of librals satisfying conditions stipulated above to SFLAA-Environment department. The revised list of blocks and conditions stipulated above shall be made available in public domain. It should be published in two local language newspapers and at each block where mining aperation is proposed. District mining officer should ensure this and submit compliance report to Environment department with approval from Collectur.

- The validity period of the EC wall be for 2 years as per St 44 f &CC Notethedron for 11 for April, 20) Shut limited to period at feece.
- 2. The environmental elemente is being issued without prejudice to the action moneth in a configuration and countries of the part and countries of the environment laws of a coest of mean that it is configuration as not shalted any environmental faws in the part and whatever decreaming the P Act or of the flow ble count will be binding on the project proposent. Hence this elemente does not give immunity to the project proponent in the case filed against form any or action instance under EP Act.
- In case of submission of false document and non-compliance of stepulated conditions.
   Authority/Environment Department will revoke or suspend ffic has informered beloated as without any infination and initiate appropriate legal action under this revolute Protection Act, 1986.
- The Environment department reserves the right to add my stringent condition or to tree in the Clearance of conditions stipulated are not implemented to the construction of the department or for that matter, for any other administrative mason.
- 10. In case of any deviation or alteration in the project proposed from those submitted visited attended for electronic, a fresh reference should be made to the department to issue adequacy of the condition(s) imposed and to incorporate additional covariances appropriate than attended, if my
- H. The object significants would be enforced among others under the Water of the Control of Polladon; Act. 1974, the Air Presentian of Control of Polladon; Act. 1974, the Air Presentian of Control of Polladon of Control of Polladon of Control of Polladon of Control of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon of Polladon o
- 12. Any appeal against this environmental elemance simil the work of a Society of the Control of the Control of the Control of the Control of the Control of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of the Canton of

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- The CCF, Regional Office, Ministry of Environment and Forest (Regional Office) Western Region, KendriyaParyavgranBhavan, Unik Road No. 3, E.S. BasesShorks, Nagar, Bhopal-462 016), (MP).
- 6. Regional Office, MPCB, Sindhedurg
- 2. Cesteena,Sadhudatg
- IA Division, Monitoring Cell, MohF, Paryavatant/havari, CGs) Complex Toda. Road, New Delli-110003.
- 9. Director (TC-1), Dy. Secretary (TC-2), Scientist-1. Environment Department
- in. Select file (TC-3).

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#### **AFFIDAVIT**

I Mr. Antonio Seuueira , Name of Quarry :- Antonio Seuueira Address :- Survey No. 32/1,32/3 Village :- Kshetraphal Taluka Sawantwadi, District Sindhudurg Here by agree to the following Terms & condition of SEIAA :-

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#### Specific conditions:

- Quarrying allowed only in the recharge zone of hills, not in tim off or storage zone for this purpose, GSDA should be involved to carry out intensive geophysical survey to sdentify such recharge zone where quarrying can be allowed.
- 2. The mining plan shall be approved first before initiating any mining operations.
- 3. Discharge of sewage from quarry sites should be strictly controlled
- The quartes to maintain benches of 60 slope in the out, 6 in depth in cut and 6 in for the bench.
- 5. No dumping of material shall be allowed in the water resources of Nallas.
- 6. The Cotteener shall obtain the list of abandoned quarries in the District and prepare restoration plan for the same. In future, applications for the EC for quarries will be considered only if the restoration plan of abandoned and quarries is submitted.
- 7. No quarrying should be allowed in the run-off zone of billy areas.
- After mining extraction is completed, the existing pits on site must be filled up and the
  closure must be supervised and certified by the District Mining Officer.
- Ambient Air Quality should be get monitored through MPCB and reports to be submitted to SEIAA by Collector every Month.
- 10. No quarry shall be allowed within safe distance from any habitation or human activity.
- 11. District Collector will take bank guarantee of Rs. 2,00,000?—OR upto 2% of the annual royalty, whichever is higher, for the given lease from the lease holder to ensure the compliance of the conditions stipulated. In case of violation of stipulated conditions by project proponent bank guarantee so obtained shall be forfeited and legal action under the law should be initiated against such project proponent.
- 12. It shall be ensured that there is no fauna dependent on the areas classe to mining for its neeting

- 13. To prevent dust / particulate matter pollution, the lease holder shall take up tree plantation in an area 10 m from the boundary of the leased area and also on either side of the read leading to the quarry from the already surfaced road.
- 14. District Collector to ensure that the provisions stipulated in Maharashtra Minor Minerals Extraction (development and Regulation) Rules 2013 shall be strictly adhered to.
- 15. The configuration of benches should be: 60 degrees slope in the cut, 6 mtdepth for cut and 6 mt width for the bench.
- 16. Collector shall ensure that an quarrying is carried out in forest or zodpi jungle.
- 17. No water sources shall be affected due to quarrying activity.
- 18. District Collector was requested to preparetestoration plan of closed quarries in the district.
- All labor engaged in quarrying will be provided with protective gears like mask, helmets, boots etc.
- 20. District Collector to ensure that distance between one lease area and another lease area or clusters of lease area is more than 500 m.
- 21. District Collector to ensure that every receipt given is serially scanned and registration number so generated must be written on such receipt to avoid duplication and unauthorized transportation of the stone.
- 22. Project Proponent and District Collector to ensure that vehicles transporting stone should not be overloaded beyond stated capacity.
- 23. Project Proponent and District Collector to ensure that there is no violation of the Hon'ble NGT, Hon'ble Supreme Court order given in related matters.
- 24. The District Collector to prepare closure plan and get it approved by the competent authority for all abandoned mines in the District.
- 25. District Collector and District Mining officer will be held responsible personally for non-compliance of the conditions stipulated in the Environmental clearance and shall be liable for logal action under Environment (Protection) Act of 1986.
- Transport of stone should be by vehicles which are properly covered with Tarpaulin and it should not be overleaded.

- 27. The lease holder shall undertake adequate safegoard measures during extraction of material and easure that due to this activity, the hydro-geological regime of the surrounding area is not affected. The depth of quarrying should be above the levels of aquifers to avoid the contamination/ degradation of water quality of aquifers. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary connective measures shall be carried out. District Collector/mining officer shall ensure this.
- 28. Effective safeguards, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Water sprinkling shall also be carried out on hand roads. It should be ensured that the Ambient Air Quality parameters conform to the names prescribed by the Central Pollution Control Board to this regard. The status of implementation of measures taken shall be reported to Environment Department.
- 29. This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.

#### General conditions:

- Precise mining area will be jointly demanded at site by officials of Mining/Revenue department prior to mining operations for all preposals under consideration. Such site plan, duly verified by competent authority shall be submitted to high noment Department.
- 2. All necessary statutory clearences shall be obtained before start of mining operations,
- Mining / loading shall be limited to day hours' time only. The quarrying / loading shall not be done during hight hours.
- 4. No mining shall be carried out in the safety zone of any bridge and/or embankment.
- 5. No mining shall be carried out in the vicinity of natural/ manmade archeological sites,
- The lease holder shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if required for the project.
- Waste water, if any, shall be properly collected and treated so as to conform to the standards prescribed by MoEF/CPCB.
- 8. No wildlife habitet will be infringed.
- Environmental elegrance is subject to obtaining elegrance under the Wildlife (Protection).
   Act, 1972 from the competent authority, if applicable to this project.
- 10 Green belt development shall be earried out considering CPCB guidelines including selection of plant species in consultation with the local DFO/Horticulture Officer.

- 11. Parking of vehicles should not be made on public places.
- Transportation of materials shall be done by covering the trucks / tractors with terpaulin or
  other suitable mechanism so that no spillage of mineral/dust takes place.
- 13. Appropriate mitigation measures shall be taken to prevent any kind of pollution in consultation with the Maharashtra Pollution Central Board, It shall be ensured that there is no leakage of oil and grease from the vehicles used for transportation.
- 14. Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- 15. Special Measures shall be adopted to prevent the nearby settlements from the impacts of mining activities. Maintenance of roads through which transportation of minor minerals is to be undertaken, shall be carried-out regularly.
- 15. Dispensary facilities for first-aid shall be provided at site.
- Occupational health surveillance program of the workers should be undertaken periodically.
- 18. Provision shall be made for housing the workers at site, if required, with all necessary infrastructure and facilities such as fuel for cooking, safe drinking water, medical health care and sanitation etc.
- 19. Ambient air quality will be monitored at the site and the nearest habitation in the months of January, April and November, Ambient air quality at the boundary of the precise mining area shall conform to the norms prescribed by MoEF, GOI.
- 20. Measures shall be taken for control of noise levels to the limits prescribed by CPCB.
- An Environmental Audit shall be annually carried out during the operational phase and be submitted to the Environment Department;
- 22. Digital processing of the entire lease area in the district using remote sensing technique shall be done regularly once in three years for monitoring and report submitted to the Environment Department. The funds carmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure on environmental protection measures shall be reported to the Regional Office, Ministry of Environment and Forests, Bhopal.
- 23. Revenue Authorities shall submit within 3 months their policy of (i) Standard operating process! procedure to bring into focus any infringement/deviation /violation of environmental norms /conditions, (ii) Hierarchical system or Administrative order to deal with environmental issues and to ensure compliance of EC conditions and (iii) System of reporting of non-compliance/violation of environmental norms to the District collector.

- 21 The Mining officer shall submit six monthly reports in hard and sait copy on the siatus of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard & soft copies) to the Environment Department, and the District Collector and the respective Regional Office of the Maharashira Pollution Control Board.
- 25. Any change in mining area, khasra /Gat numbers, entailing capacity addition with change in process and or mining technology, modernization and scope of working shall again require prior Environmental Clearance as per provisions of EIA Notification, 2006 (as amended).
- 26. The proposals has appraised on the basis of information submitted by concerned District Mining Officer. Mining Officer shall submit the list of blocks satisfying conditions stipulated above to Revenue & Environment dept. The list of blocks and conditions stipulated above shall be made available in public domain. It should be published in two local language newspapers and displayed at each block where mining operation is proposed. District mining officer should ensure this and submit compliance report to Environment department with approval from Collector.

### STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SIA/MH/MIN/129992/2019 Environment Department Room No. 217, 2nd Floor, Mantralaya, Mumbai- 400032. Date: 31.03.2020.

To

Mr. Vishal Prabhakar Parab,

Khasara 64 part, Village : Sadegudawale, Tehsil : Chandgad, District : Kolhapur.

Sub : Revalidation of EC for Stone quarry at Khasara 64 part, Village : Sadegudawale, Tehsil : Chandgad, District : Kolhapur by Vishal Prabhakar Parab

Ref :

: 1. Application no SIA/MH/MIN/129992/2019

2. Earlier EC letter no. SEAC-2013/CR-112/TC-3, date 14.03.2013

With reference to above subject matter, it is noted that, you have received Environment Clearance vide SEAC-2013/CR-112/TC-3, date 14.03.2013. You have further applied for revalidation of Environment Clearance for said project within validity of the aforesaid EC vide above ref. (1). Your proposal for revalidation was considered in 187th meeting of SEIAA and as per decision taken in the meeting, the environment clearance granted vide above ref. (3) is revalidated for a period up to 12.03.2023.

The terms and conditions stipulated in the EC letter SEAC-2013/CR-112/TC-3, date 14.03.2013 vide above ref. (2) shall remain the same.

Principle Secretary

& Member Secretary, SEIAA