



**File No: 21-273/2024-IA.III**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**IA Division**  
**\*\*\***



Dated **02/09/2024**



To,

Shri Umasankar A  
M/s AIRPORTS AUTHORITY OF INDIA  
Rajiv Gandhi Bhawan, Safdarjung Airport Area, New Delhi - 110 003  
asankar@aai.aero

**Subject: Construction of Development of Greenfield Airport at Doloo, Silchar, Assam by M/s Airports Authority of India – For Grant of Terms of Reference (ToR) - reg.**

**Sir/Madam,**

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Proposed Development of Greenfield Airport at Doloo, Silchar, Assam by Airports Authority of India submitted to Ministry vide proposal number IA/AS/INFRA2/469929/2024 dated 24/04/2024.

2. The particulars of the proposal are as below :

<b>(i) TOR Identification No.</b>	TO24A2901AS5376108N
<b>(ii) File No.</b>	21-273/2024-IA.III
<b>(iii) Clearance Type</b>	TOR
<b>(iv) Category</b>	A
<b>(v) Project/Activity Included Schedule No.</b>	7(a) Airports
<b>(vi) Sector</b>	INFRA-2
<b>(vii) Name of Project</b>	Proposed Development of Greenfield Airport at Doloo, Silchar, Assam by Airports Authority of India
<b>(viii) Name of Company/Organization</b>	AIRPORTS AUTHORITY OF INDIA
<b>(ix) Location of Project (District, State)</b>	CACHAR, ASSAM
<b>(x) Issuing Authority</b>	MoEF&CC
<b>(xii) Applicability of General Conditions</b>	no
<b>(xiii) Applicability of Specific Conditions</b>	no

3. The project/activity is covered under category 'A' of item 7(a) 'Airports' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and required appraisal as category A by sectoral EAC at central level.

4. Accordingly, the proposal for grant of Terms of Reference (ToR) for Construction of Development of Greenfield Airport at Doloo, Silchar, Assam by M/s Airports Authority of India has been examined by the Expert Appraisal Committee (Infra) in its 128<sup>th</sup> meeting held during 26-28 June, 2024.

5. The details of the project, as per the documents submitted by the project proponent, and also as informed during the aforesaid meeting of EAC, are provided below for reference:

i. The project is a Greenfield project.

ii. The proposed project is located at Doloo, Silchar, Assam by the Airports Authority of India.

iii. Total land area of 997.4 acres (4,036,335 sq. m) has been earmarked for the development of the proposed Airport. 826.60 acres of land has already been acquired by the State Government for handover. Additional 170.8 acres of land is still to be acquired/ handed over by the State Government.

iv. The proposed land use of the site (area earmarked for proposed project/activity):

Name	Area (sq. m)
Runway	1,12,500
RESA	43,200
Apron	15,300
Link Taxi	8000
Isolation Bay area & link taxi	14,569
Terminal Building	15,000
ATC Tower	11,550
Other building (Sub-station, Emergency Medical Room, Transit accommodation, Fire Station & Admin Block)	18000
Greenbelt/Landscape area	1,00,000
Vehicles Parking Area	17,500
Other allied Infrastructure Facilities	---
Road and Pavement area	40,000
Open Area for future development	Not planned yet
<b>Total</b>	<b>4,036,335 Sq. m or 997.4 acre</b>

v. No diversion of Forestland is involved.

vi. The proposed project site does not come under Critically Polluted Area.

vii. The Baseline period proposed for the proposed project is October 2023 to December 2023(Post-Monsoon). Baseline data is collected to identify the environmental impacts due to the project. Therefore, 8 monitoring locations of Ambient Air Quality and Noise levels, 6 for Soil Quality and Ground and 7 for Surface Water Quality are identified.

viii. The total fresh water requirement of the water for the proposed project will be 203 KLD which will be met from the Ground water Supply.

viii. During operation phase, wastewater generated from Airport will be treated in Sewage Treatment Plant (STP) comprising primary, secondary and tertiary treatment facilities. The treated wastewater from the STP will be re-used for flushing and landscaping.

ix. Solid waste generated from the proposed airport mainly comprises of waste and garbage waste. Further, small quantities of sludge from STP and other waste will be generated. Collection and handling of domestic solid waste would be done in line with the provisions of the Municipal Solid Waste Rules 2000 (as amended).

x. 1095 Kg/day of Municipal Solid waste is estimated to be generated from the Airport on the basis of population projection estimated till year 2036-37.

xi. The total power requirement of the Civil Airport is 3000 kVA or 2400 kW. Source-State Electricity Board.

xii. The total cost estimate for the proposed project is about Rs. 1400 Crores.

xiii. Employment: During the Construction phase- 350 nos skilled, unskilled and professional workforce temporary employees. During the Operation Phase- 10 nos. day-to-day professional and maintenance workers and in addition to the 40 nos. existing employees shall be required.

xiv. Benefit of the Project: The profitability of the project is quite attractive. The project is technically and financially viable with a positive impact on the local infrastructure. The region shall also benefit from the project as there will be direct employment of people. Preference will be given to the people of the state possessing requisite skill and qualification

criteria. Also, there will be lot of scope for indirect employment of the people of the state in and around the project site.

6. The committee has noted that this proposed airport is a Greenfield airport. The total land area is 997.4 acres has been earmarked for the development of the proposed Airport. Out of 997.4 acres, 826.60 acres of land has already been acquired by the State Government for handover. An additional 170.8 acres of land is still to be acquired/ handed over by the State Government. The committee has noted that Dalu River is adjacent to the proposed area, Barail Wildlife Sanctuary is located within 3.3 km and Barail ESZ area is 1.6 km. Further, the committee has noted that major irrigation canal runs across middle of site from West to East with sluice gate to control the water flow, which may be required for diversion. Further, the project proponent has selected three site for the suitability of site i. e. Doloo T.E. Site, Khoreel T.E. Site and Silcoorie T.E. Site and also Airport Authority of India also visited the all site. The AAI has recommended the Doloo T.E. Site. The committee has noted that the area is undulating and tea garden.

7. After detailed deliberation, EAC recommended for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said the project/activity along the additional Terms of Reference over and above the Standard ToR for preparation of the EIA and EMP report with Public Consultation.

8. As per the recommendations of the EAC (Infra 2), the Ministry of Environment, Forest and Climate Change hereby accords ToR for preparation of the Environment Impact Assessment (EIA) Report and Environment Management Plan (EMP) with Public Consultation for Construction of Development of Greenfield Airport at Doloo, Silchar, Assam by M/s Airports Authority of India, with the specific ToR in addition to Standard ToR enclosed in **Annexure 1**.

9. The above ToR should be considered for preparation of EIA/EMP report with public consultation for Construction of Development of Greenfield Airport at Doloo, Silchar, Assam by M/s Airports Authority of India, in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006 as amended.

10. As stipulated in amendment notification No. S.O. 751(E) dated 17<sup>th</sup> February, 2020, the above ToR would be valid for a period of four years from the date of issue. The project proponent shall submit detailed final EIA Report and EMP prepared as per above ToR within the stipulated period of four years as per Ministry's OM issued vide F. No. IA3-22/10/2022-IA.III [E 177258] dated 08.06.2022.

11. As per amendment notification No. 648(E) dated 3<sup>rd</sup> March, 2016, the Environmental consultant organizations which are accredited for a particular sector and the category of project for that sector with the Quality Council of India (QCI) or National Accreditation Board for Education and Training (NABET) or any other agency as may be notified by the Ministry of Environment, Forest and Climate Change from time to time shall be allowed to prepare the EIA Report and EMP of a project and appear before the concerned EAC. The consultants involved in preparation of EIA Report would need to include a certificate in this regard in the EIA report and EMP prepared by them and details for data provided by other Organization(s)/ Laboratories including their status of approvals etc.

12. This issues with the approval of the Competent Authority.

### **Copy To**

1. The DDG (Central), Ministry of Environment, Forest & Climate Change, Integrated Regional Office, 4th Floor, Housefed building, GS Road, Rukmini Gaon, Guwahati - 781 022.

2. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati – Guwahati - 781 021.

**Annexure 1**

### **Specific Terms of Reference for (Airports)**

#### **1. Specific Condition**

S. No	Terms of Reference
1.1	Comparative report of site suitability related to Environmental aspect.
1.2	A sensitivity analysis of the site shall be carried out as per the MoEF&CC criteria and form part of the EIA report.
1.3	Impact of the proposed project on Bird Movement in particular and wildlife in general in the region.
1.4	Impact of the proposed project on adjacent water bodies and possible mitigation measures.
1.5	Feasibility study on the use of Natural gas in power generation sets in place of diesel for mitigation of air pollution.
1.6	Importance and benefits of the project.
1.7	Layout maps of proposed project indicating runway, terminal building, parking, greenbelt area, utilities etc.
1.8	The details of excavations, its impacts and the impact of transport of excavated material. A detailed management plan shall be suggested.
1.9	An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.
1.10	The impacts of demolition and the activities related thereto shall be examined and a management plan shall be prepared to conform to the C&D Waste Management Rules.
1.11	An onsite disaster management plan shall be prepared to account for risks and accidents. This onsite plan shall be dovetailed with the disaster management plan for the district.
1.12	A note on appropriate process and materials to be used to encourage reduction in carbon footprint. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy Conservation

S. No	Terms of Reference
	Building Code (ECBC) 2017 of the Bureau of Energy Efficiency, Government of India. The energy system includes air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices.
1.13	Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
1.14	Details of emissions, effluents, solid waste (including de-plane waste) and hazardous waste generation and their management. Air quality modelling and noise modelling shall be carried out for the emissions from the various types of aircrafts.
1.15	Details shall be provided regarding the solar generation proposed and the extent of substitution, along with compliance to the ECBC rules. Cost of project and time of completion.
1.16	A tabular chart with index for point wise compliance of above TORs.
1.17	Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included.
1.18	Cost of project and time of completion.

#### Standard Terms of Reference for (Airports)

#### 1. Project Details

S. No	Terms of Reference
1.1	Importance and benefits of the project.
1.2	Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental angle, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
1.3	Examine and submit details of levels, quantity required for filling, source of filling material and transportation details etc. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disaster integrating with existing airport.
1.4	Details of man-power requirement (regular and contract).
1.5	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation

S. No	Terms of Reference
	of EMP should be clearly spelt out.
1.6	Submit Layout plans of proposed project indicating runway, terminal building, parking, greenbelt area, utilities etc.

## 2. Road And Traffic

S. No	Terms of Reference
2.1	Examine road/rail connectivity to the project site and impact on the existing traffic network due to the proposed project/activities. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
2.2	An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.

## 3. Land Environment

S. No	Terms of Reference
3.1	Details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site. Examine and submit detail of land use around 10 km radius of the project site and map of the project area and 10 km area from boundary of the proposed/existing project area, delineating project areas notified under the wild life (Protection) Act, 1972/critically polluted areas as identified by the CPCB from time to time/notified eco-sensitive areas/inter-state boundaries and international boundaries. Analysis should be made based on latest satellite imagery for land use with raw images.
3.2	Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities. Check on flood plain of any river.
3.3	The details of excavations, its impacts and the impact of transport of excavated material. A detailed management plan shall be included in compliance with C&D Waste Management Rule, 2016.

## 4. Drainage

S. No	Terms of Reference
4.1	Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, any obstruction of the same by the airport.

## 5. Water Environment

S. No	Terms of Reference
5.1	Examine and submit the water bodies including the seasonal ones within the corridor of impacts along with their status, volumetric capacity, quality likely impacts on them due to the project. Submit CRZ map in case the proposed site falls in CRZ region.

#### 6. Land Acquisition And R&r

S. No	Terms of Reference
6.1	Submit the present land use and permission required for any conversion such as forest, agriculture etc.
6.2	Submit details regarding R&R involved in the project.
6.3	Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
6.4	Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.

#### 7. Water Management

S. No	Terms of Reference
7.1	Examine the details of water requirement, use of treated waste water and prepare a water balance chart. Source of water vis-à-vis waste water to be generated along with treatment facilities to be proposed.
7.2	Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.

#### 8. Waste Management

S. No	Terms of Reference
8.1	Examine details of Solid waste generation (including de-plane waste and hazardous waste) treatment and its disposal.
8.2	The impacts of demolition and the activities related thereto shall be examined and a management plan shall be prepared to conform to the C&D Waste Management Rules.

#### 9. Energy Management

S. No	Terms of Reference
9.1	Requirement of power, with source of supply, status of approval.
9.2	Details shall be provided regarding the solar generation proposed and the extent of substitution,

S. No	Terms of Reference
	along with compliance to the ECBC rules.
9.3	A note on appropriate process and materials to be used to encourage reduction in carbon foot print. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy Conservation Building Code (ECBC) 2017 of the Bureau of Energy Efficiency, Government of India. The energy system includes air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices.

#### 10. Environmental Monitoring And Management

S. No	Terms of Reference
10.1	Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
10.2	Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
10.3	The air quality monitoring should be carried out as per the notification issued on 16th November, 2009.
10.4	A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
10.5	Air quality modelling and noise modelling shall be carried out for the emissions from the various types of aircrafts.
10.6	Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.

#### 11. Disaster Management Plan

S. No	Terms of Reference
11.1	Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

#### 12. Socioeconomic Environment

S. No	Terms of Reference
12.1	Examine the impact of proposed project on the nearest settlements.
12.2	Submit details of corporate social responsibilities (CSR).

S. No	Terms of Reference
12.3	Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

### 13. Forest

S. No	Terms of Reference
13.1	Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.
13.2	Submit status of permission to be obtained from concerned local authorities for the proposed tree cutting/pruning/transplantation.
13.3	Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.

### 14. Court Cases

S. No	Terms of Reference
14.1	Details of litigation pending against the project, if any, with direction/order passed by any Court of Law against the Project should be given.



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

<b>Sample No:</b>	VEL/GA/AA/001-026	<b>Report No:</b>	VEL/AA/001-026
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At - Doloo, Assam	<b>Reporting Date:</b>	11/01/2024
<b>Sample Collected by:</b>	Vardan EnviroLab Representative	<b>Ref. No:</b>	NIL
<b>Sample Description:</b>	Ambient Air Quality Monitoring	<b>Monitoring Period:</b>	October 2023 to December 2023
<b>Location:</b>	Project Site (A1)	<b>Equipment Used:</b>	RDS & FPS with all accessories
		<b>Protocol Used:</b>	IS-5182 & CPCB Guidelines
		<b>Parameter Required:</b>	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
01.10.2023	38.9	22.6	17.5	10.5	0.76
02.10.2023	45.1	20.6	18.4	10.7	0.81
08.10.2023	34.9	18.8	22.5	10.6	0.77
09.10.2023	36.9	23.7	18.2	10.5	0.79
15.10.2023	35.1	22.8	18.7	11.7	0.75
16.10.2023	42.1	20.1	21.7	12.8	0.71
22.10.2023	43.1	22.3	15.5	11.8	0.71
23.10.2023	37.1	17.6	19.6	11.5	0.76
29.10.2023	44.2	17.5	21.2	12.9	0.73
30.10.2023	41.3	24.3	15.3	12.3	0.69
05.11.2023	41.2	23.0	17.9	8.8	0.69
06.11.2023	39.4	19.6	16.7	11.3	0.74
12.11.2023	37.1	24.3	16.0	10.4	0.77
13.11.2023	37.6	20.8	20.1	9.5	0.72
19.11.2023	34.8	19.9	17.9	13.5	0.74
20.11.2023	41.0	20.6	18.9	8.8	0.78
26.11.2023	42.4	17.1	22.2	12.4	0.81
27.11.2023	36.1	18.6	21.5	10.5	0.79
03.12.2023	32.9	17.3	15.7	12.4	0.72
04.12.2023	42.2	21.7	21.4	13.4	0.70
10.12.2023	41.1	22.0	14.9	9.0	0.82

(Checked By)

(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Report No:	VEL/AA/001-026				
Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
11.12.2023	36.5	23.2	15.8	13.3	0.83
17.12.2023	34.0	18.3	15.9	8.4	0.79
18.12.2023	42.0	19.4	16.1	9.1	0.69
24.12.2023	40.3	19.4	14.3	8.3	0.75
25.12.2023	32.7	18.7	21.5	12.8	0.81

Limit as per NAAQS	Parameter	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
	--		100	60	80	80

®National Ambient Air Quality Standards.

(Checked By)

(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

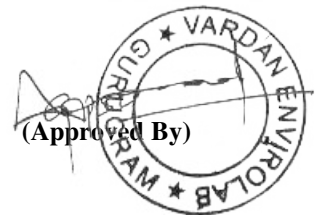
Sample No:	VEL/GA/AA/027-052	Report No:	VEL/AA/027-052
Name & Address of the Project:	Greenfield Airport	Reporting Date:	11/01/2024
Sample Collected by:	At - Doloo, Assam	Ref. No:	NIL
Sample Description:	Vardan EnviroLab Representative Ambient Air Quality Monitoring	Monitoring Period:	October 2023 to December 2023
Location:	Madhurapur Grant (A2)	Equipment Used:	RDS & FPS with all accessories
		Protocol Used:	IS-5182 & CPCB Guidelines
		Parameter Required:	As per TOR Letter

### RESULTS

Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
01.10.2023	31.6	13.1	9.7	4.2	0.44
02.10.2023	38.1	17.1	14.0	4.5	0.50
08.10.2023	30.6	11.5	10.2	4.9	0.44
09.10.2023	39.2	12.8	15.4	5.6	0.43
15.10.2023	36.8	15.4	16.0	5.7	0.48
16.10.2023	36.7	17.6	10.7	6.6	0.42
22.10.2023	33.6	18.0	15.3	6.3	0.48
23.10.2023	27.0	16.2	16.8	5.7	0.47
29.10.2023	37.9	13.5	15.1	5.7	0.44
30.10.2023	36.5	18.0	16.2	5.1	0.48
05.11.2023	35.3	13.6	13.7	4.6	0.44
06.11.2023	28.9	17.2	10.7	5.5	0.50
12.11.2023	35.7	16.3	11.4	4.8	0.43
13.11.2023	31.3	17.3	9.9	4.4	0.49
19.11.2023	36.6	18.5	17.1	4.7	0.49
20.11.2023	29.4	11.0	15.2	4.8	0.47
26.11.2023	36.3	17.3	15.5	4.3	0.47
27.11.2023	30.2	14.9	14.2	6.3	0.46
03.12.2023	37.9	16.7	14.6	5.0	0.44
04.12.2023	33.0	14.0	15.6	4.6	0.44
10.12.2023	36.3	14.0	13.6	5.3	0.50



(Checked By)



(Approved By)

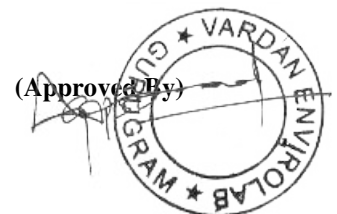
## Test Report

Report No:	VEL/AA/027-052				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
11.12.2023	33.4	13.7	13.7	4.8	0.46
17.12.2023	37.3	13.9	10.2	5.1	0.43
18.12.2023	32.8	12.4	9.4	6.2	0.46
24.12.2023	39.3	11.5	14.0	5.8	0.45
25.12.2023	37.4	12.6	15.8	4.6	0.46

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
	--	100	60	80	80	4

®National Ambient Air Quality Standards.


  
(Checked By)


  
(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample No:	VEL/GA/AA/053-078	Report No:	VEL/AA/053-078
Name & Address of the Project:	Greenfield Airport	Reporting Date:	11/01/2024
Sample Collected by:	At - Doloo, Assam	Ref. No:	NIL
Sample Description:	Vardan EnviroLab Representative Ambient Air Quality Monitoring	Monitoring Period:	October 2023 to December 2023
Location:	Dudhpatil Pt.1 (A3)	Equipment Used:	RDS & FPS with all accessories
		Protocol Used:	IS-5182 & CPCB Guidelines
		Parameter Required:	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
01.10.2023	35.4	19.0	16.8	7.5	0.54
02.10.2023	27.8	14.7	13.2	5.4	0.47
08.10.2023	38.2	12.4	10.8	5.8	0.47
09.10.2023	35.4	16.3	10.3	6.3	0.47
15.10.2023	34.4	17.7	10.7	7.1	0.47
16.10.2023	38.0	15.1	12.5	5.0	0.51
22.10.2023	27.4	12.4	15.6	7.4	0.46
23.10.2023	27.9	16.0	10.9	7.7	0.46
29.10.2023	37.9	12.1	13.7	6.0	0.49
30.10.2023	31.7	19.7	11.5	7.2	0.56
05.11.2023	37.2	14.7	14.0	7.8	0.53
06.11.2023	33.1	19.0	17.6	6.4	0.56
12.11.2023	37.0	20.7	12.2	7.3	0.47
13.11.2023	28.1	14.9	17.7	7.7	0.54
19.11.2023	31.4	12.8	11.2	7.7	0.47
20.11.2023	39.0	16.1	15.8	7.9	0.46
26.11.2023	30.6	19.2	13.2	6.4	0.49
27.11.2023	34.7	19.5	13.3	6.4	0.55
03.12.2023	33.3	20.5	13.5	5.8	0.52
04.12.2023	38.2	20.7	18.4	8.3	0.48
10.12.2023	35.4	19.9	13.7	8.3	0.55

(Checked By)

(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Report No:	VEL/AA/053-078				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
11.12.2023	30.5	20.5	15.5	7.3	0.55
17.12.2023	39.1	17.7	15.7	5.4	0.52
18.12.2023	36.0	13.4	18.4	6.2	0.48
24.12.2023	39.5	20.6	10.9	6.9	0.49
25.12.2023	37.3	18.7	11.2	7.3	0.53

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
--	--	100	60	80	80	4

®National Ambient Air Quality Standards.



(Checked By)



(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

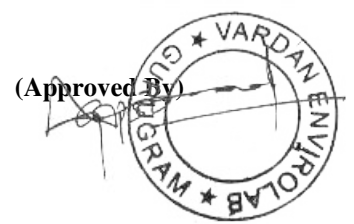
Sample No:	VEL/GA/AA/079-104	Report No:	VEL/AA/079-104
Name & Address of the Project:	Greenfield Airport	Reporting Date:	11/01/2024
Sample Collected by:	At - Doloo, Assam	Ref. No:	NIL
Sample Description:	Vardan EnviroLab Representative Ambient Air Quality Monitoring	Monitoring Period:	October 2023 to December 2023
		Equipment Used:	RDS & FPS with all accessories
		Protocol Used:	IS-5182 & CPCB Guidelines
Location:	Boro Rampur (A4)	Parameter Required:	As per TOR Letter

### RESULTS

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
03.10.2023	38.0	22.9	15.3	12.5	0.62
04.10.2023	37.9	23.0	15.2	10.8	0.69
10.10.2023	37.6	17.1	17.6	7.9	0.60
11.10.2023	36.0	21.2	13.0	12.3	0.76
17.10.2023	41.8	21.6	18.9	7.9	0.77
18.10.2023	38.9	20.0	18.3	10.1	0.75
24.10.2023	37.3	16.8	15.2	7.5	0.68
25.10.2023	35.9	21.7	14.8	11.3	0.70
31.10.2023	42.4	17.0	16.6	11.1	0.71
01.11.2023	34.3	18.3	16.8	10.5	0.73
07.11.2023	37.0	20.5	14.5	11.2	0.78
08.11.2023	40.6	20.1	20.5	11.6	0.67
14.11.2023	37.1	22.2	15.6	9.1	0.78
15.11.2023	43.5	20.7	15.9	11.3	0.65
21.11.2023	39.8	22.6	18.7	9.6	0.60
22.11.2023	36.2	19.8	19.4	7.4	0.66
28.11.2023	36.6	19.7	18.1	11.6	0.73
29.11.2023	38.4	20.1	19.3	9.7	0.75
05.12.2023	37.0	20.7	19.9	10.6	0.74
06.12.2023	39.9	20.4	12.9	8.3	0.70
12.12.2023	43.4	15.4	15.6	7.5	0.72



(Checked By)



(Approved By)



## Test Report

Report No:	VEL/AA/079-104				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
13.12.2023	37.6	20.7	15.2	10.7	0.74
19.12.2023	34.7	15.1	17.4	9.0	0.75
20.12.2023	38.1	20.9	18.2	7.6	0.68
26.12.2023	32.9	22.4	16.9	7.9	0.68
27.12.2023	41.1	22.3	15.4	9.9	0.78

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
	--		100	60	80	80

@ National Ambient Air Quality Standards.

Checked By)

(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

<b>Sample No:</b>	VEL/GA/AA/105-130	<b>Report No:</b>	VEL/AA/105-130
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At - Doloo, Assam	<b>Reporting Date:</b>	11/01/2024
<b>Sample Collected by:</b>	Vardan EnviroLab Representative	<b>Ref. No:</b>	NIL
<b>Sample Description:</b>	Ambient Air Quality Monitoring	<b>Monitoring Period:</b>	October 2023 to December 2023
<b>Location:</b>	Chandighat Grant (A5)	<b>Equipment Used:</b>	RDS & FPS with all accessories
		<b>Protocol Used:</b>	IS-5182 & CPCB Guidelines
		<b>Parameter Required:</b>	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
03.10.2023	36.8	24.8	17.0	13.1	0.80
04.10.2023	46.2	18.8	23.0	9.8	0.93
10.10.2023	36.5	24.6	19.9	10.2	0.79
11.10.2023	41.0	21.3	16.9	11.2	0.82
17.10.2023	46.2	22.3	19.5	13.7	0.87
18.10.2023	46.8	25.8	18.0	14.8	0.91
24.10.2023	43.8	19.9	21.6	13.3	0.82
25.10.2023	36.3	18.1	23.6	12.5	0.93
31.10.2023	43.8	21.4	22.4	14.0	0.77
01.11.2023	38.1	22.8	19.9	9.4	0.92
07.11.2023	45.9	24.8	17.9	10.8	0.79
08.11.2023	39.9	18.4	20.3	9.7	0.87
14.11.2023	44.3	20.7	23.0	11.2	0.81
15.11.2023	44.0	24.3	19.8	13.0	0.78
21.11.2023	36.2	23.7	20.0	10.7	0.82
22.11.2023	47.0	18.1	19.3	12.8	0.93
28.11.2023	42.2	19.5	15.2	14.8	0.86
29.11.2023	46.7	22.9	17.8	10.9	0.77
05.12.2023	37.7	25.6	20.5	13.9	0.83
06.12.2023	43.4	18.6	20.6	12.3	0.89
12.12.2023	41.9	24.0	20.4	15.1	0.78

(Checked By)

(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

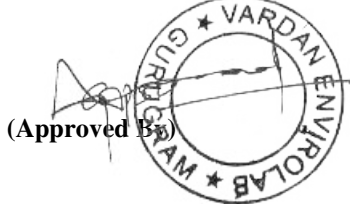
## Test Report

Report No:	VEL/AA/105-130				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
13.12.2023	45.8	25.7	21.1	15.2	0.76
19.12.2023	41.8	23.9	22.7	14.8	0.79
20.12.2023	40.3	22.1	18.6	14.7	0.92
26.12.2023	41.2	18.0	16.7	14.1	0.77
27.12.2023	46.5	22.7	17.5	12.3	0.93

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
	--		100	60	80	80

®National Ambient Air Quality Standards.

  
 (Checked By)

  
 (Approved By)



## Test Report

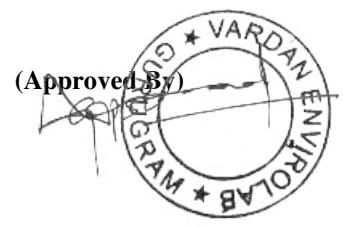
Sample No:	VEL/GA/AA/131-156	Report No:	VEL/AA/131-156
Name & Address of the Project:	Greenfield Airport At - Doloo, Assam	Reporting Date:	11/01/2024
Sample Collected by:	Vardan EnviroLab Representative	Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	October 2023 to December 2023
Location:	Subong (A6)	Equipment Used:	RDS & FPS with all accessories
		Protocol Used:	IS-5182 & CPCB Guidelines
		Parameter Required:	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
03.10.2023	43.3	17.5	15.0	14.2	0.73
04.10.2023	45.5	23.3	19.5	9.6	0.87
10.10.2023	36.3	19.8	19.5	9.0	0.86
11.10.2023	40.4	19.3	19.1	12.1	0.87
17.10.2023	35.7	19.1	16.5	9.7	0.87
18.10.2023	46.2	18.7	16.8	12.3	0.80
24.10.2023	40.1	20.9	21.6	12.9	0.89
25.10.2023	37.8	23.6	19.9	9.1	0.78
31.10.2023	46.7	21.8	17.2	11.5	0.74
01.11.2023	39.3	23.5	21.5	11.2	0.89
07.11.2023	37.7	22.7	19.9	10.0	0.84
08.11.2023	38.3	18.0	22.8	10.1	0.84
14.11.2023	46.6	17.9	16.2	9.8	0.86
15.11.2023	37.2	18.8	18.0	13.3	0.74
21.11.2023	40.2	18.7	20.9	13.0	0.74
22.11.2023	39.9	23.5	15.9	10.9	0.81
28.11.2023	43.8	20.6	16.6	9.8	0.87
29.11.2023	36.1	22.4	16.0	10.3	0.73
05.12.2023	44.1	18.0	21.4	9.1	0.79
06.12.2023	44.7	23.6	16.1	14.0	0.84



(Checked By)



(Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Report No:	VEL/AA/131-156				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
12.12.2023	37.8	23.2	15.4	12.4	0.78
13.12.2023	34.2	19.8	20.3	11.3	0.72
19.12.2023	39.4	22.8	16.9	10.1	0.80
20.12.2023	35.0	19.0	18.0	12.8	0.76
26.12.2023	37.7	17.5	17.4	11.6	0.75
27.12.2023	35.7	23.0	15.5	9.0	0.87

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
	--	100	60	80	80	4

@National Ambient Air Quality Standards.

(Checked By)

(Approved By)



## Test Report

<b>Sample No:</b>	VEL/GA/AA/157-182	<b>Report No:</b>	VEL/AA/157-182
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At - Doloo, Assam	<b>Reporting Date:</b>	11/01/2024
<b>Sample Collected by:</b>	Vardan EnviroLab Representative	<b>Ref. No:</b>	NIL
<b>Sample Description:</b>	Ambient Air Quality Monitoring	<b>Monitoring Period:</b>	October 2023 to December 2023
<b>Location:</b>	Dalu Grant (A7)	<b>Equipment Used:</b>	RDS & FPS with all accessories
		<b>Protocol Used:</b>	IS-5182 & CPCB Guidelines
		<b>Parameter Required:</b>	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
05.10.2023	31.2	21.7	18.9	6.6	0.55
06.10.2023	30.8	16.8	15.6	7.6	0.63
12.10.2023	36.8	17.4	13.9	5.8	0.62
13.10.2023	41.0	17.5	15.4	8.4	0.57
19.10.2023	28.6	19.5	18.4	9.1	0.63
20.10.2023	30.7	14.3	11.8	7.2	0.52
26.10.2023	29.3	14.3	12.7	7.2	0.62
27.10.2022	34.8	18.2	12.6	8.9	0.55
02.11.2023	32.4	13.0	12.1	9.0	0.49
03.11.2023	34.7	18.7	17.7	6.0	0.58
09.11.2023	39.5	18.2	18.4	8.8	0.59
10.11.2023	28.7	16.1	16.5	7.8	0.53
16.11.2023	41.7	17.5	11.7	7.8	0.53
17.11.2023	38.9	18.3	14.5	6.7	0.50
23.11.2023	33.6	12.7	19.5	6.2	0.56
24.11.2023	31.2	19.3	12.1	8.8	0.59
30.11.2023	38.5	19.1	17.2	7.5	0.52
01.12.2023	35.0	15.5	18.3	7.8	0.61
07.12.2023	32.4	18.5	16.6	7.8	0.62
08.12.2023	34.4	14.1	11.7	7.1	0.60

(Checked By)

(Approved By)



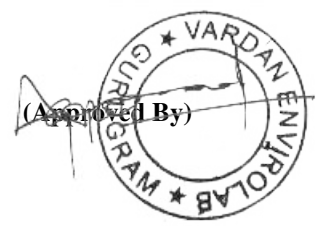
## Test Report

Report No:	VEL/AA/157-182				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
14.12.2023	35.2	12.8	11.6	8.4	0.50
15.12.2023	35.5	16.0	13.3	7.6	0.56
21.12.2023	39.7	14.3	17.5	8.1	0.58
22.12.2023	37.9	19.7	12.5	8.9	0.56
28.12.2023	32.5	13.5	19.2	6.1	0.62
29.12.2023	34.3	15.0	11.7	9.0	0.51

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
	--	100	60	80	80	4

® National Ambient Air Quality Standards.

  
 (Checked By)

  
 (Approved By)



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

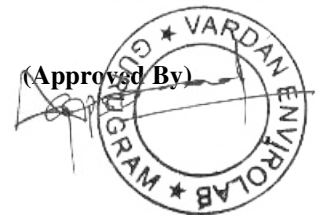
<b>Sample No:</b>	VEL/GA/AA/183-208	<b>Report No:</b>	VEL/AA/183-208
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At - Doloo, Assam	<b>Reporting Date:</b>	11/01/2024
<b>Sample Collected by:</b>	Vardan EnviroLab Representative	<b>Ref. No:</b>	NIL
<b>Sample Description:</b>	Ambient Air Quality Monitoring	<b>Monitoring Period:</b>	October 2023 to December 2023
<b>Location:</b>	Borodudhpatil Grant (A8)	<b>Equipment Used:</b>	RDS & FPS with all accessories
		<b>Protocol Used:</b>	IS-5182 & CPCB Guidelines
		<b>Parameter Required:</b>	As per TOR Letter

## RESULTS

Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
05.10.2023	33.7	20.8	18.8	11.1	0.62
06.10.2023	38.9	13.6	16.4	7.4	0.58
12.10.2023	41.8	16.1	14.0	9.6	0.55
13.10.2023	41.0	15.1	18.1	8.3	0.66
19.10.2023	36.8	13.6	15.3	7.4	0.66
20.10.2023	32.3	18.0	15.0	7.5	0.66
26.10.2023	29.4	18.9	15.0	7.6	0.71
27.10.2022	36.9	15.4	16.2	9.2	0.57
02.11.2023	37.8	15.2	14.5	8.7	0.58
03.11.2023	31.4	18.5	15.7	9.6	0.59
09.11.2023	37.3	18.1	12.1	6.9	0.65
10.11.2023	36.4	21.6	13.2	7.7	0.57
16.11.2023	31.1	21.1	16.8	8.1	0.56
17.11.2023	38.8	15.9	20.2	9.3	0.55
23.11.2023	30.8	15.5	14.3	9.5	0.66
24.11.2023	37.6	20.1	15.2	7.0	0.71
30.11.2023	38.2	17.4	12.2	10.5	0.66
01.12.2023	34.7	16.0	19.6	9.5	0.71
07.12.2023	30.5	13.8	17.8	10.5	0.69
08.12.2023	34.1	17.9	12.6	9.4	0.58



(Checked By)



(Approved By)



## Test Report

Report No:	VEL/AA/183-208				
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
14.12.2023	38.8	19.7	20.7	9.2	0.71
15.12.2023	40.0	20.3	13.0	6.9	0.58
21.12.2023	39.6	21.7	16.9	8.8	0.69
22.12.2023	37.2	22.4	15.6	8.1	0.57
28.12.2023	35.7	20.7	15.0	10.3	0.56
29.12.2023	34.0	21.4	18.8	9.7	0.63

Limit as per NAAQS	Parameter	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
--	--	100	60	80	80	4

® National Ambient Air Quality Standards.

(Checked By)

(Approved By)



## Test Report

Sample No. : VEL/GA/AN/01  
Name & Address of the Project : **Greenfield Airport**  
**At- Doloo, Silchar, Assam**

Report No : **VEL/AN/2311/15/001**  
Format No : **7.8 F-03**  
Party Reference No : **NIL**  
Reporting Date : **19/11/2023**  
Receipt Date : **15/11/2023**

Sample Description : **AMBIENT NOISE LEVEL MONITORING**

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : **Project Site (N1)**  
Instrument Used : Sound Level Meter- 1  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : **06/11/2023-07/11/2023**  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : **L<sub>max</sub>, L<sub>min</sub>, L<sub>eq</sub>**

## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	<b>L<sub>max</sub></b>	IS 9989:1981 (RA 2001)	58.2	48.4	dB(A)
2.	<b>L<sub>min</sub></b>	IS 9989:1981 (RA 2001)	43.8	35.6	dB(A)
3.	<b>L<sub>eq</sub></b>	IS 9989:1981 (RA 2001)	48.65	39.42	dB(A)
4.	<b>Limits in dB(A) Leq (Silence zone)</b>	-	<b>50.00</b>	<b>40.00</b>	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.

(Checked By)

(Approved By)



## Test Report

Sample No. : VEL/GA/AN/02  
Name & Address of the Project : Greenfield Airport  
At- Doloo, Silchar, Assam

Report No : VEL/AN/2311/15/002  
Format No : 7.8 F-03  
Party Reference No : NIL  
Reporting Date : 19/11/2023  
Receipt Date : 15/11/2023

Sample Description : AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Boro Rampur (N2)  
Instrument Used : Sound Level Meter- 2  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 06/11/2023-07/11/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  $L_{max}$ ,  $L_{min}$ ,  $L_{eq}$

## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	69.4	55.2	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	48.2	38.8	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	53.16	42.22	dB(A)
4.	Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.

(Checked By)

(Approved By)



## Test Report

Sample No. : VEL/GA/AN/03  
Name & Address of the Project : Greenfield Airport  
At- Doloo, Silchar, Assam

Report No : VEL/AN/2311/15/003  
Format No : 7.8 F-03  
Party Reference No : NIL  
Reporting Date : 19/11/2023  
Receipt Date : 15/11/2023

Sample Description : AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Madhurapur Grant (N3)  
Instrument Used : Sound Level Meter- 3  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 06/11/2023-07/11/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  $L_{max}$ ,  $L_{min}$ ,  $L_{eq}$

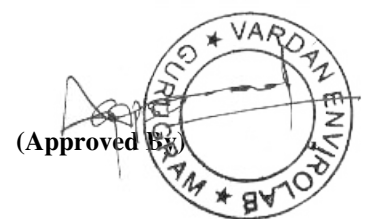
## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	62.5	52.8	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	46.8	36.8	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	51.29	40.82	dB(A)
4.	Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.



(Checked By)



(Approved By)



## Test Report

Sample No. : VEL/GA/AN/04  
Name & Address of the Project : Greenfield Airport  
At- Doloo, Silchar, Assam

Report No : VEL/AN/2311/15/004  
Format No : 7.8 F-03  
Party Reference No : NIL  
Reporting Date : 19/11/2023  
Receipt Date : 15/11/2023

Sample Description : AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Barabond (N4)  
Instrument Used : Sound Level Meter- 1  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 08/11/2023-09/11/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  $L_{max}$ ,  $L_{min}$ ,  $L_{eq}$

## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	56.8	45.6	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	42.4	35.4	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	47.24	38.12	dB(A)
4.	Limits in dB(A) Leq (Silence zone)	-	50.00	40.00	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.

(Checked By)

(Approved By)



## Test Report

Sample No. : VEL/GA/AN/05  
Name & Address of the Project : Greenfield Airport  
At- Doloo, Silchar, Assam

Report No : VEL/AN/2311/15/005  
Format No : 7.8 F-03  
Party Reference No : NIL  
Reporting Date : 19/11/2023  
Receipt Date : 15/11/2023

Sample Description : AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Chandighat Grant (N5)  
Instrument Used : Sound Level Meter- 2  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 08/11/2023-09/11/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  $L_{max}$ ,  $L_{min}$ ,  $L_{eq}$

## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	67.1	53.6	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	46.5	36.4	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	53.75	42.80	dB(A)
4.	Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.

(Checked By)

(Approved By)



## Test Report

Sample No. : VEL/GA/AN/06  
Name & Address of the Project : **Greenfield Airport**  
**At- Doloo, Silchar, Assam**

Report No : **VEL/AN/2311/15/006**  
Format No : **7.8 F-03**  
Party Reference No : **NIL**  
Reporting Date : **19/11/2023**  
Receipt Date : **15/11/2023**

Sample Description : **AMBIENT NOISE LEVEL MONITORING**

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : **Dudhpatil Pt II (N6)**  
Instrument Used : Sound Level Meter- 3  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : **08/11/2023-09/11/2023**  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : **L<sub>max</sub>, L<sub>min</sub>, L<sub>eq</sub>**

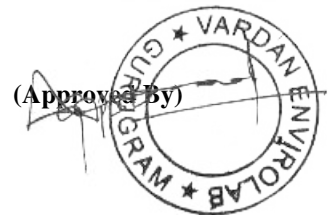
## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	<b>L<sub>max</sub></b>	IS 9989:1981 (RA 2001)	63.8	51.6	dB(A)
2.	<b>L<sub>min</sub></b>	IS 9989:1981 (RA 2001)	43.4	35.4	dB(A)
3.	<b>L<sub>eq</sub></b>	IS 9989:1981 (RA 2001)	52.96	41.65	dB(A)
4.	<b>Limits in dB(A) Leq (Residential Area)</b>	-	<b>55.00</b>	<b>45.00</b>	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.



(Checked By)



(Approved By)



## Test Report

Sample No. : VEL/GA/AN/07  
Name & Address of the Project : **Greenfield Airport**  
**At- Doloo, Silchar, Assam**

Report No : **VEL/AN/2311/15/007**  
Format No : **7.8 F-03**  
Party Reference No : **NIL**  
Reporting Date : **19/11/2023**  
Receipt Date : **15/11/2023**

Sample Description : **AMBIENT NOISE LEVEL MONITORING**

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : **Ardvallik (N7)**  
Instrument Used : Sound Level Meter- 1  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : **10/11/2023-11/11/2023**  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  **$L_{max}$ ,  $L_{min}$ ,  $L_{eq}$**

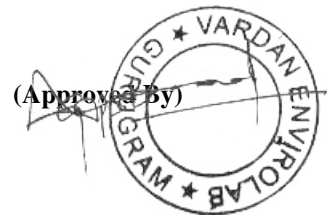
## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	64.7	52.4	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	45.6	38.6	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	53.36	42.46	dB(A)
4.	<b>Limits in dB(A) Leq (Residential Area)</b>	-	<b>55.00</b>	<b>45.00</b>	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.



(Checked By)



(Approved By)



## Test Report

Sample No. : VEL/GA/AN/08  
Name & Address of the Project : Greenfield Airport  
At- Doloo, Silchar, Assam

Report No : VEL/AN/2311/15/008  
Format No : 7.8 F-03  
Party Reference No : NIL  
Reporting Date : 19/11/2023  
Receipt Date : 15/11/2023

Sample Description : AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Borodudhpatil Grant (N8)  
Instrument Used : Sound Level Meter- 2  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/11/2023-11/11/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Industrial, Vehicular & Human Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required :  $L_{max}$ ,  $L_{min}$ ,  $L_{eq}$

## RESULT

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989:1981 (RA 2001)	60.8	50.4	dB(A)
2.	$L_{min}$	IS 9989:1981 (RA 2001)	47.5	36.5	dB(A)
3.	$L_{eq}$	IS 9989:1981 (RA 2001)	52.47	41.22	dB(A)
4.	Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

**Note**\*The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 vide S.O. 1046(E), dated 22.11.2000 and by the Noise Pollution (Regulation and Control) (Amendment) Rules, 2002 vide S.O. 1088(E), dated 11.10.2002, under the Environment (Protection) Act, 1986.

(Checked By)

(Approved By)



## Test Report

**Sample Number:** VEL/GA/S/01  
**Name & Address of the Project:** Greenfield Airport  
At- Doloo, Silchar, Assam

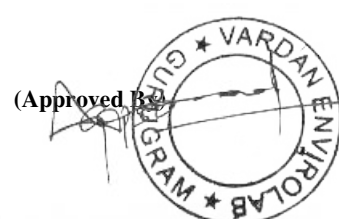
**Report No:** VEL/S/2311/23/001  
**Format No:** 7.8 F-03  
**Party Reference No:** NIL  
**Reporting Date:** 28/11/2023  
**Period of Analysis:** 23/11/2023– 28/11/2023  
**Receipt Date:** 23/11/2023  
**Sampling Date:** 20/11/2023  
**Sample Quantity:** 2.0 Kg  
**Sampling Type:** Composite  
**Packing Status:** Sealed Packed  
**Parameter Required:** As per TOR Letter

**Sample Description:** SOIL SAMPLE  
**Sample Location:** Project Site (S1)  
**Sample Collected by:** Vardan EnviroLab Representative  
**Sampling and Analysis Protocol:** IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.15	--
2.	Conductivity	IS:14767	0.236	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	<b>Sand - 45</b>	%
			<b>Silt - 36</b>	
			<b>Clay - 19</b>	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	35.59	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.41	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	16.76	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	91.40	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	141.95	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	163.15	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.58	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	4.14	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	176.15	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	20.03	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	24.93	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	91.95	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.94	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.60	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	20.61	mg/kg

\*\*\* End of Report \*\*\*

  
(Checked By)

  
(Approved By)



## Test Report

Sample Number: VEL/GA/S/02  
Name & Address of the Project: Greenfield Airport  
At- Doloo, Silchar, Assam

Report No: VEL/S/2311/23/002  
Format No: 7.8 F-03  
Party Reference No: NIL  
Reporting Date: 28/11/2023  
Period of Analysis: 23/11/2023– 28/11/2023  
Receipt Date: 23/11/2023  
Sampling Date: 20/11/2023  
Sample Quantity: 2.0 Kg  
Sampling Type: Composite  
Packing Status: Sealed Packed  
Parameter Required: As per TOR Letter

Sample Description: SOIL SAMPLE  
Sample Location: Dhumkar Village (S2)  
Sample Collected by: Vardan EnviroLab Representative  
Sampling and Analysis Protocol: IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.20	--
2.	Conductivity	IS:14767	0.310	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	<b>Sand - 48</b>	%
			<b>Silt - 41</b>	
			<b>Clay - 11</b>	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	38.18	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.45	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	26.22	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	96.06	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	47.76	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	161.5	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.56	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	7.42	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	164.83	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	21.61	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	27.74	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	83.25	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.84	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	2.46	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	22.80	mg/kg

\*\*\* End of Report \*\*\*

Checked By)

(Approved By)



## Test Report


Sample Number: VEL/GA/S/03  
Name & Address of the Project: Greenfield Airport  
At- Doloo, Silchar, Assam

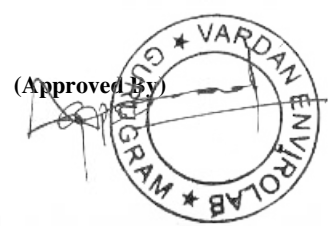
Report No: VEL/S/2311/23/003  
Format No: 7.8 F-03  
Party Reference No: NIL  
Reporting Date: 28/11/2023  
Period of Analysis: 23/11/2023- 28/11/2023  
Receipt Date: 23/11/2023  
Sampling Date: 20/11/2023  
Sample Quantity: 2.0 Kg  
Sampling Type: Composite  
Packing Status: Sealed Packed  
Parameter Required: As per TOR Letter

Sample Description: SOIL SAMPLE  
Sample Location: Boro Rampur (S3)  
Sample Collected by: Vardan EnviroLab Representative  
Sampling and Analysis Protocol: IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.54	--
2.	Conductivity	IS:14767	0.264	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	<b>Sand - 46</b>	%
			<b>Silt - 37</b>	
			<b>Clay - 17</b>	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	37.13	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.67	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	16.35	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	99.54	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	150.00	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	142.5	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.90	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	6.28	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	162.79	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	17.12	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	26.66	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	90.26	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.87	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.03	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	21.93	mg/kg

\*\*\* End of Report \*\*\*

Checked By: 

(Approved By) 



## Test Report

**Sample Number:** VEL/GA/S/04  
**Name & Address of the Project:** Greenfield Airport  
At-Doloo, Silchar, Assam

**Report No:** VEL/S/2311/23/004  
**Format No:** 7.8 F-03  
**Party Reference No:** NIL  
**Reporting Date:** 28/11/2023  
**Period of Analysis:** 23/11/2023– 28/11/2023  
**Receipt Date:** 23/11/2023  
**Sampling Date:** 20/11/2023  
**Sample Quantity:** 2.0 Kg  
**Sampling Type:** Composite  
**Packing Status:** Sealed Packed  
**Parameter Required:** As per TOR Letter

**Sample Description:** SOIL SAMPLE  
**Sample Location:** Masughat (S4)  
**Sample Collected by:** Vardan EnviroLab Representative  
**Sampling and Analysis Protocol:** IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.26	--
2.	Conductivity	IS:14767	0.242	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	<b>Sand - 44</b>	%
			<b>Silt - 39</b>	
			<b>Clay - 17</b>	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	35.75	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.55	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	27.01	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	91.75	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	141.64	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	138.5	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.72	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	7.25	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	195.15	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	28.76	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	27.76	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	85.23	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.97	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.17	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	22.91	mg/kg

\*\*\* End of Report \*\*\*

Checked By)

Approved By)



## Test Report

Sample Number: VEL/GA/S/05  
Name & Address of the Project: Greenfield Airport  
At- Doloo, Silchar, Assam

Report No: VEL/S/2311/23/005  
Format No: 7.8 F-03  
Party Reference No: NIL  
Reporting Date: 28/11/2023  
Period of Analysis: 23/11/2023- 28/11/2023  
Receipt Date: 23/11/2023  
Sampling Date: 20/11/2023  
Sample Quantity: 2.0 Kg  
Sampling Type: Composite  
Packing Status: Sealed Packed  
Parameter Required: As per TOR Letter

Sample Description: SOIL SAMPLE  
Sample Location: Dalu Grant (S5)  
Sample Collected by: Vardan EnviroLab Representative  
Sampling and Analysis Protocol: IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.55	--
2.	Conductivity	IS:14767	0.239	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	Sand - 51	%
			Silt - 35	
			Clay - 14	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	38.35	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.58	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	25.96	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	86.11	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	143.98	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	161.30	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.90	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	7.76	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	186.14	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	28.32	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	24.98	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	84.18	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.90	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.30	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	24.74	mg/kg

\*\*\* End of Report \*\*\*

(Checked By)

(Approved By)



## Test Report

Sample Number: VEL/GA/S/06  
Name & Address of the Project: Greenfield Airport  
At- Doloo, Silchar, Assam

Report No: VEL/S/2311/23/006  
Format No: 7.8 F-03  
Party Reference No: NIL  
Reporting Date: 28/11/2023  
Period of Analysis: 23/11/2023- 28/11/2023  
Receipt Date: 23/11/2023  
Sampling Date: 20/11/2023  
Sample Quantity: 2.0 Kg  
Sampling Type: Composite  
Packing Status: Sealed Packed  
Parameter Required: As per TOR Letter

Sample Description: SOIL SAMPLE  
Sample Location: Gorer Bond Pt II (S6)  
Sample Collected by: Vardan EnviroLab Representative  
Sampling and Analysis Protocol: IS, USEPA 3050B & SOP

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	IS : 2720 (P-26)	7.59	--
2.	Conductivity	IS:14767	0.286	mS/cm
3.	Soil texture	VEL/STP/EN/64, Issue No.-01, 01/11/2021	<b>Sand - 47</b>	%
			<b>Silt - 38</b>	
			<b>Clay - 15</b>	
4.	color	VEL/STP/EN/67, Issue No.-01, 01/11/2021	Yellowish Brown	--
5.	water holding capacity	VEL/STP/EN/86, Issue No.-01, 01/11/2021	35.81	%
6.	bulk density	VEL/STP/EN/59, Issue No.-01, 01/11/2021	1.46	gm/cc
7.	chloride as cl	VEL/STP/EN/69, Issue No.-01, 01/11/2021	25.22	mg/100g
8.	calcium as ca	VEL/STP/EN/72, Issue No.-01, 01/11/2021	84.76	mg/100g
9.	sodium as Na	VEL/STP/EN/62, Issue No.-01, 01/11/2021	162.50	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.-01, 01/11/2021	140.00	kg/hect.
11.	Organic matter	IS : 2720 (P-22), Titrimetric Method	0.94	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No.-01, 01/11/2021	7.93	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	167.75	kg./hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.-01, 01/11/2021	29.15	kg./hect.
15.	Zinc (as Zn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	31.58	mg/kg
16.	Manganese (as Mn)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	88.92	mg/kg
17.	Lead (as Pb)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.22	mg/kg
18.	Cadmium (as Cd)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	*BLQ (**LOQ – 0.5)	mg/kg
19.	Chromium (as Cr)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	1.41	mg/kg
20.	Copper (as Cu)	VEL/STP/EN/165, Issue No.-01, 20/06/2022	23.51	mg/kg

\*\*\* End of Report \*\*\*

(Checked By)

(Approved By)



## Test Report

<b>Sample Number:</b>	VEL/W/GA/01	<b>Report No.:</b>	VEL/W/2311/23/001
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Boro Rampur (GW1)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.88	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	157	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	33.91	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	110.66	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	43.37	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	17.55	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	213	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	25.96	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.3	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	9.29	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.15	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

Sample No.: VEL/W/GA/01				Report No.: VEL/W/2311/23/001		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.45	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation

(Checked By)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/01				Report No.: VEL/W/2311/23/001		
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	APHA 9221 B	< 1.8	MPN/100ml	-	-
32.	E. Coli	APHA 9221 F	< 1.8	MPN/100ml	-	-

(Checked By)

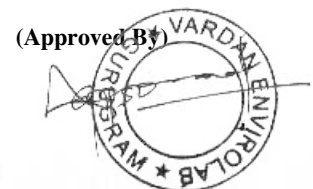
(Approved By)



## Test Report

<b>Sample Number:</b>	VEL/W/GA/02	<b>Report No.:</b>	VEL/W/2311/23/002
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Hatichara (GW2)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.65	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	153	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	34.67	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	165.28	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	77.64	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	16.11	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	222	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	23.28	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.31	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	9.18	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.22	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

Sample No.: VEL/W/GA/02				Report No.: VEL/W/2311/23/002		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.39	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation

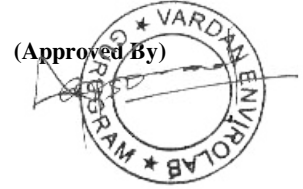
(Checked by)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/02			Report No.: VEL/W/2311/23/002			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	IS 1622	< 1.8	MPN/100ml	-	-
32.	E. Coli	IS 1622	< 1.8	MPN/100ml	-	-

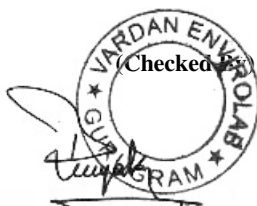




## Test Report

<b>Sample Number:</b>	VEL/W/GA/03	<b>Report No.:</b>	VEL/W/2311/23/003
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Dalu Grant (GW3)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.51	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	148	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	30.2	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	192.09	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	46.46	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	17.61	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	215	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	28.04	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.47	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	10.31	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.18	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

Sample No.: VEL/W/GA/03				Report No.: VEL/W/2311/23/003		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.47	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation

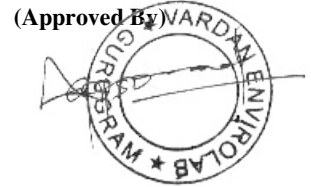
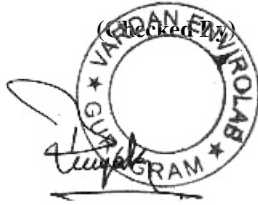
(Checked by)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/03			Report No.: VEL/W/2311/23/003			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	IS 1622	< 1.8	MPN/100ml	-	-
32.	E. Coli	IS 1622	< 1.8	MPN/100ml	-	-





## Test Report

<b>Sample Number:</b>	VEL/W/GA/04	<b>Report No.:</b>	VEL/W/2311/23/004
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Niz- Borkhola Pt II (GW4)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.72	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	150	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	34.8	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	193.73	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	40.59	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	15.30	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	222	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	24.59	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.38	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	10.03	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.13	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

Sample No.: VEL/W/GA/04				Report No.: VEL/W/2311/23/004		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.54	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation

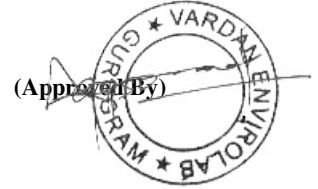
(Checked By)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/04				Report No.: VEL/W/2311/23/004		
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	IS 1622	< 1.8	MPN/100ml	-	-
32.	E. Coli	IS 1622	< 1.8	MPN/100ml	-	-





## Test Report

<b>Sample Number:</b>	VEL/W/GA/05	<b>Report No.:</b>	VEL/W/2311/23/005
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Madhurapur Grant (GW5)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

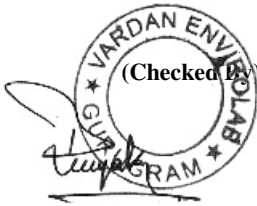
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.76	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	155	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	31.25	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	221.17	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	50.06	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	18.68	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	218	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	28	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.46	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	10.9	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.13	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

Sample No.: VEL/W/GA/05				Report No.: VEL/W/2311/23/005		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.69	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation





## Test Report

Sample No.: VEL/W/GA/05				Report No.: VEL/W/2311/23/005		
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	IS 1622	< 1.8	MPN/100ml	-	-
32.	E. Coli	IS 1622	< 1.8	MPN/100ml	-	-

(Checked By)

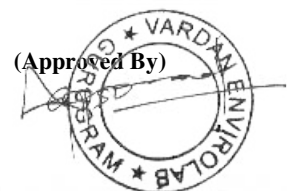
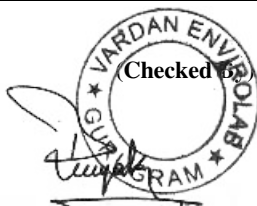
(Approved By)



## Test Report

<b>Sample Number:</b>	VEL/W/GA/06	<b>Report No.:</b>	VEL/W/2311/23/006
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	28/11/2023
		<b>Period of Analysis:</b>	23/11/2023-28/11/2023
		<b>Receipt Date:</b>	23/11/2023
<b>Sample Description:</b>	Ground Water Sample	<b>Sampling Date:</b>	20/11/2023
<b>Sample Location:</b>	Masimpur Pt II (GW6)	<b>Sampling Quantity:</b>	5.0 Ltr + 250ml.
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Type:</b>	Grab
<b>Sampling and Analysis Protocol:</b>	IS, APHA, 23rd Edition 2017 & STP	<b>Preservation:</b>	Ice Box

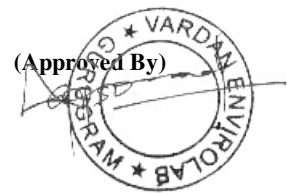
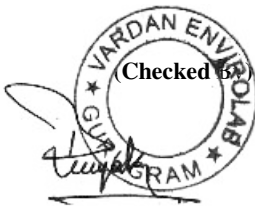
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25°C)	IS3025 (P-11)	7.85	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	*BLQ(**LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	*BLQ(**LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	mg/L	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	157	mg/L	200	600
7.	Calcium as Ca	IS3025 (P-40)	31.68	mg/L	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	146.3	mg/L	200	600
9.	Chloride as Cl	IS 3025 (P-32)	85.75	mg/L	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B	18.90	mg/L	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	221	mg/L	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	26.21	mg/L	200	400
14.	Fluoride as F	APHA 4500 F D	0.33	mg/L	1	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	10.88	mg/L	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.23	mg/L	1	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.5	2.4
19.	Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	No Relaxation
20.	Phenolic Compounds	IS3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L	1	No Relaxation





## Test Report

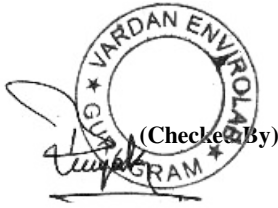
Sample No.: VEL/W/GA/06				Report No.: VEL/W/2311/23/006		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
22.	Anionic Detergents as MBAS	IS3025 (P-68)	*BLQ(**LOQ-0.05)	mg/L	0.2	1
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.29	mg/L	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.001)	mg/L	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	*BLQ(**LOQ-0.0005)	mg/L	0.001	No Relaxation





## Test Report

Sample No.: VEL/W/GA/06			Report No.: VEL/W/2311/23/006			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
31.	Total Coliform	IS 1622	< 1.8	MPN/100ml	-	-
32.	E. Coli	IS 1622	< 1.8	MPN/100ml	-	-

  
 (Checked By)

  
 (Approved By)



## Test Report

<b>Sample Number:</b>	VEL/W/GA/07	<b>Report No.:</b>	VEL/W/2311/23/007
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Jatinga River (Downstream) (SW1)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.65	--
2.	Colour	IS:3025 (P-4)	10.00	Hazen
3.	Turbidity	IS:3025 (P-10)	64.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	288.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	94.29	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	235.49	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	150.62	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	12.70	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	442	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	62.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	5.9	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	48.82	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.56	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	20.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	78.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.735	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	44.10	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

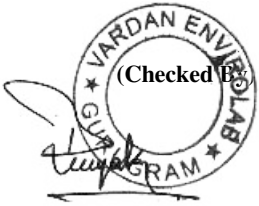




## Test Report

Sample No.: VEL/W/GA/07			Report No.: VEL/W/2311/23/007	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	189.45	mg/L
22.	Potassium as K	IS:3025 (P-45)	12.4	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.41	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.22	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	1.94	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.12	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification





## Test Report

Sample No.: VEL/W/GA/07			Report No.: VEL/W/2311/23/007	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	700	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	490	MPN/100ml

\*\*\* End of Report \*\*\*

(Checked By)

(Approved By)

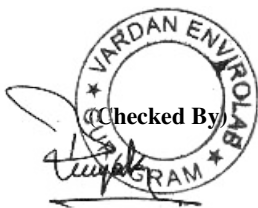


## Test Report

<b>Sample Number:</b>	VEL/W/GA/08	<b>Report No.:</b>	VEL/W/2311/23/008
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Jatinga River (Upstream) (SW2)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.44	--
2.	Colour	IS:3025 (P-4)	8.00	Hazen
3.	Turbidity	IS:3025 (P-10)	55.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	216.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	96.94	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	264.25	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	160.31	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	6.40	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	397	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	51.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	5.7	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	42.28	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.52	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	21.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	62.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.674	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	58.03	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification





## Test Report

Sample No.: VEL/W/GA/08			Report No.: VEL/W/2311/23/008	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	86.41	mg/L
22.	Potassium as K	IS:3025 (P-45)	12.34	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.59	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.25	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	1.61	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.22	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

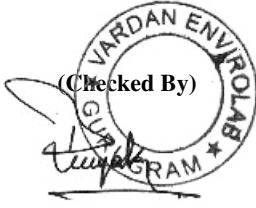




## Test Report

Sample No.: VEL/W/GA/08			Report No.: VEL/W/2311/23/008	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	1200	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	840	MPN/100ml

\*\*\* End of Report \*\*\*





## Test Report

<b>Sample Number:</b>	VEL/W/GA/09	<b>Report No.:</b>	VEL/W/2311/23/009
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Doloo Lake (SW3)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.72	--
2.	Colour	IS:3025 (P-4)	17.00	Hazen
3.	Turbidity	IS:3025 (P-10)	67.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	281.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	94.92	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	273.77	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	138.36	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	10.61	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	469	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	62.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	5.6	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	57.79	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.50	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	24.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	74.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.784	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	57.24	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification





## Test Report

Sample No.: VEL/W/GA/09			Report No.: VEL/W/2311/23/009	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	144.61	mg/L
22.	Potassium as K	IS:3025 (P-45)	13.5	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.68	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.23	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	2.31	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.20	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

(Checked By)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/09			Report No.: VEL/W/2311/23/009	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	840	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	540	MPN/100ml

\*\*\* End of Report \*\*\*

(Checked By)

(Approved By)

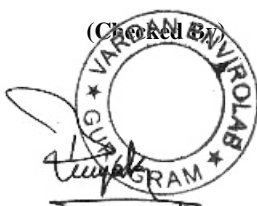


## Test Report

<b>Sample Number:</b>	VEL/W/GA/10	<b>Report No.:</b>	VEL/W/2311/23/010
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Barak River (Upstream) (SW4)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.78	--
2.	Colour	IS:3025 (P-4)	13.00	Hazen
3.	Turbidity	IS:3025 (P-10)	66.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	280.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	86.79	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	293.66	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	88.21	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	15.31	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	480	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	62.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	5.3	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	56.52	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.35	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	25.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	82.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.798	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	96.02	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification





## Test Report

Sample No.: VEL/W/GA/10			Report No.: VEL/W/2311/23/010	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	145.10	mg/L
22.	Potassium as K	IS:3025 (P-45)	10.4	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.60	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.36	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	1.52	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.24	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

(Checked By)

(Approved By)



## Test Report

Sample No.: VEL/W/GA/10			Report No.: VEL/W/2311/23/010	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	940	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	580	MPN/100ml

\*\*\* End of Report \*\*\*



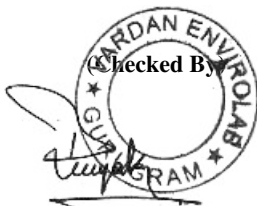


## Test Report

<b>Sample Number:</b>	VEL/W/GA/11	<b>Report No.:</b>	VEL/W/2311/23/011
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Barak River (Downstream) (SW5)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.56	--
2.	Colour	IS:3025 (P-4)	11.00	Hazen
3.	Turbidity	IS:3025 (P-10)	60.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	284.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	96.5	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	255.02	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	81.62	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	10.38	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	679	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	55.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	5.1	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	74.46	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.33	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	29.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	74.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	1.114	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	41.89	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification





## Test Report

Sample No.: VEL/W/GA/11			Report No.: VEL/W/2311/23/011	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	123.86	mg/L
22.	Potassium as K	IS:3025 (P-45)	13.8	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.35	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.27	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	2.23	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.27	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

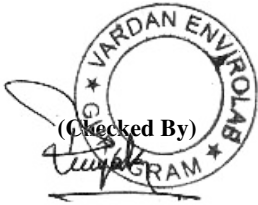




## Test Report

Sample No.: VEL/W/GA/11			Report No.: VEL/W/2311/23/011	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	920	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	470	MPN/100ml

\*\*\* End of Report \*\*\*



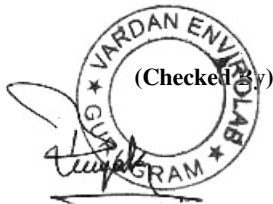


## Test Report

<b>Sample Number:</b>	VEL/W/GA/12	<b>Report No.:</b>	VEL/W/2311/23/012
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Madhura River (Upstream) (SW6)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.60	--
2.	Colour	IS:3025 (P-4)	22.00	Hazen
3.	Turbidity	IS:3025 (P-10)	63.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	288.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	93.75	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	265.54	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	139.29	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	13.03	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	549	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	61.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	4.3	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	46.06	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.37	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	38.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	72.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.925	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	104.17	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

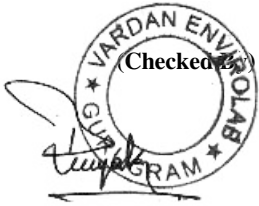




## Test Report

Sample No.: VEL/W/GA/12			Report No.: VEL/W/2311/23/012	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	159.81	mg/L
22.	Potassium as K	IS:3025 (P-45)	12.54	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.66	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.26	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	1.69	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.27	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

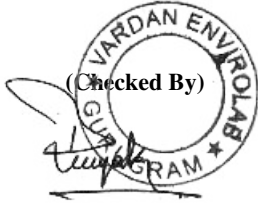




## Test Report

Sample No.: VEL/W/GA/12			Report No.: VEL/W/2311/23/012	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	1100	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	700	MPN/100ml

\*\*\* End of Report \*\*\*



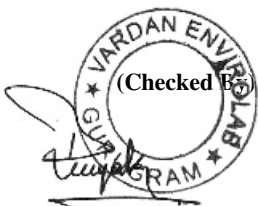


## Test Report

<b>Sample Number:</b>	VEL/W/GA/13	<b>Report No.:</b>	VEL/W/2311/23/013
<b>Name &amp; Address of the Project:</b>	Greenfield Airport At- Doloo, Silchar, Assam	<b>Format No.:</b>	7.8 F-03
<b>Sample Description:</b>	Surface Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	Madhura River (Downstream) (SW7)	<b>Reporting Date:</b>	27/11/2023
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Period of Analysis:</b>	23/11/2023 – 27/11/2023
<b>Preservation:</b>	Ice Box	<b>Receipt Date:</b>	23/11/2023
<b>Sampling and Analysis Protocol:</b>	IS, APHA 23 <sup>rd</sup> Edition 2017 & STP	<b>Sampling Date:</b>	20/11/2023
		<b>Sampling Quantity:</b>	5.0 Ltr + 250ml
		<b>Sampling Type:</b>	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11)	7.86	--
2.	Colour	IS:3025 (P-4)	22.00	Hazen
3.	Turbidity	IS:3025 (P-10)	59.00	NTU
4.	Odour	IS:3025 (P-5)	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	IS:3025 (P-21)	305.00	mg/L
6.	Calcium as Ca	IS:3025 (P-40)	97.19	mg/L
7.	Alkalinity as CaCO <sub>3</sub>	IS:3025 (P-23)	262.2	mg/L
8.	Chloride as Cl	IS:3025 (P-32)	124	mg/L
9.	Residual free Chlorine	IS:3025 (P-26)	*BLQ(**LOQ-0.15)	mg/L
10.	Cyanide as CN	IS:3025 (P-27)	*BLQ(**LOQ-0.02)	mg/L
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation method	15.07	mg/L
12.	Total Dissolved Solids	IS:3025 (P-16)	490	mg/L
13.	Total Suspended solids	IS:3025 (P-17)	53.00	mg/L
14.	Dissolved Oxygen	IS:3025 (P-38)	4.9	mg/L
15.	Sulphate as SO <sub>4</sub>	IS:3025 (P-24)	84.12	mg/L
16.	Fluoride as F	APHA , 4500-F B & D	0.47	mg/L
17.	BOD (3 Days at 27°C)	IS:3025,P-44	34.00	mg/L
18.	COD	APHA, 5220 B, Open Reflux Method	108.00	mg/L
19.	Conductivity (at 25 °C)	IS:3025 (P-14)	0.831	mS/cm
20.	Nitrate as NO <sub>3</sub>	IS:3025 (P-34)	93.03	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

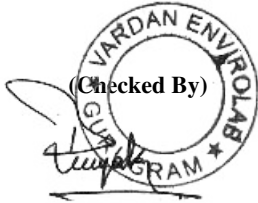




## Test Report

Sample No.: VEL/W/GA/13			Report No.: VEL/W/2311/23/013	
S. No.	Parameter	Test-Method	Result	Unit
21.	Sodium as Na	IS:3025 (P-45)	194.83	mg/L
22.	Potassium as K	IS:3025 (P-45)	10.31	mg/L
23.	Iron as Fe	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.61	mg/L
24.	Aluminium as Al	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.005)	mg/L
25.	Boron	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.35	mg/L
26.	Chromium as Cr	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L
27.	Phenolic Compounds	IS:3025 (P-43)	*BLQ(**LOQ-0.0005)	mg/L
28.	Mineral Oil	IS:3025 (P-39)	*BLQ(**LOQ-0.1)	mg/L
29.	Anionic Detergents as MBAS	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.05)	mg/L
30.	Zinc as Zn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	2.01	mg/L
31.	Copper as Cu	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	0.28	mg/L
32.	Manganese as Mn	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.01)	mg/L
33.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue date.-01, 01/11/21	*BLQ(**LOQ-0.002)	mg/L

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ - Limit of Quantification

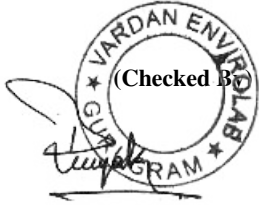




## Test Report

Sample No.: VEL/W/GA/13			Report No.: VEL/W/2311/23/013	
S. No.	Parameter	Test-Method	Result	Unit
34.	Total Coliform	APHA 23 <sup>rd</sup> edition, 9221 B	1200	MPN/100ml
35.	Fecal Coliform	APHA 23 <sup>rd</sup> edition, 9221 E	790	MPN/100ml

\*\*\* End of Report \*\*\*



Government of India  
Ministry of Jal Shakti  
Department of Water Resources, River Development and Ganga Rejuvenation  
Central Ground Water Authority (CGWA)

Application Number : INF/AS/2025/3262

Submission Date: 13/03/2025

**APPLICATION BASIC DETAILS**

APPLICATION TYPE: <b>Infrastructure</b>	APPLICATION SUB TYPE: <b>Government Infrastructure Projects</b>	PROJECT TYPE: <b>Airport</b>
WATER QUALITY TYPE: <b>Fresh Water</b>	WHETHER GROUND WATER UTILIZATION FOR: <b>New Project</b>	
WHETHER INDUSTRY IS MSME: <b>No</b>	CommercialUse: × Drinking Domestic Use: ✓ Dewatering: ×	

**PROJECT DETAILS**

PROJECT NAME: <b>PROPOSED DEVELOPMENT OF GREENFIELD AIRPORT AT DOLOO SILCHAR ASSAM BY AIRPORTS AUTHORITY OF INDIA</b>	STATE: <b>ASSAM</b>	DISTRICT: <b>CACHAR</b>
ASSESSMENT UNIT(BLOCK/TEHSIL): <b>BORKHOLA (Status: Safe)</b>	ADDRESS: <b>VILL-DOLU GRANT, BLOCK-BORKHOLA, DISTRICT-CACHAR, ASSAM</b>	PINCODE: <b>788111</b>
LATITUDE: <b>24.930000</b>	LONGITUDE: <b>92.810000</b>	Geology: <b>ALLUVIUM (SOFT ROCK)</b>
WATER REQUIRED FOR SWIMMING POOL: <b>No</b>	WATER REQUIRED FOR GREEN BELT: <b>Yes</b>	GREEN BELT AREA(SQ METER): <b>23000.00</b>
PROJECTS FALL WITH IN 500M IN THE PERIPHERY OF WETLAND AREAS: <b>No</b>		

**COMPANY DETAILS**

COMPANY NAME: <b>PROPOSED DEVELOPMENT OF GREENFIELD AIRPORT AT DOLOO SILCHAR ASSAM BY AIRPORTS AUTHORITY OF INDIA</b>	COMPANY PHONE NUMBER: <b>9435700587</b>	COMPANY GST NO.:
COMPANY PAN CARD NO.: <b>AAACA8412D</b>	COMPANY EMAIL: <b>apdsilchar@aai.aero</b>	COMPANY POSTAL ADDRESS: <b>VILL-DOLU GRANT, BLOCK-BORKHOLA, DISTRICT-CACHAR, ASSAM</b>
COMPANY STATE: <b>ASSAM</b>	COMPANY DISTRICT: <b>CACHAR</b>	COMPANY PIN CODE: <b>788111</b>

**DRINKING DOMESTIC USE****NBC NON RESIDENTIAL APPLICATION DETAIL**

BUILDING TYPE	POPULATION	PERMISSIBLE LIMIT FOR FRESH WATER (LPHD)	FRESH WATER DEMAND (LPHD)	PERMISSIBLE LIMIT FOR TREATED WATER (LPHD)	TREATED WATER DEMAND (LPHD)	TOTAL FRESH WATER REQUIREMENT (KLD)	TOTAL TREATED WATER AVAILABLE (KLD)	TOTAL WATER REQUIREMENT (KLD)
Traffic Terminal stations- Airports	4750	40	40	30	30	190.00	142.50	332.50
Offices (including canteen)	520	25	25	20	20	13.00	10.40	23.40









**BREAKUP OF WATER REQUIREMENT, AVAILABILITY AND USAGE**

#	ACTIVITY	NO. OF OPERATIONAL Days in a Year	EXSITING QUANTUM (m <sup>3</sup> /DAY)	EXSITING QUANTUM (m <sup>3</sup> /YEAR)	PROPOSED QUANTUM (m <sup>3</sup> /DAY)	PROPOSED QUANTUM (m <sup>3</sup> /YEAR)	TOTAL QUANTUM (m <sup>3</sup> /DAY)	ANNUAL QUANTUM (m <sup>3</sup> /YEAR)
Total Water Requirement (A)								
1	Construction Use	0	0.00	0.00	0.00	0.00	0.00	0.00
2	Residential / Drinking And Domestic Use	365	0.00	0.00	355.90	129903.50	355.90	129903.50
3	GreenBelt Development	365	0.00	0.00	115.00	41975.00	115.00	41975.00
4	Dewatering	0	0.00	0.00	0.00	0.00	0.00	0.00
5	Other Uses	0	0.00	0.00	0.00	0.00	0.00	0.00
6	Recharge/ Water Conservation	0	0.00	0.00	0.00	0.00	0.00	0.00
	<b>TOTAL (USAGE)</b>		<b>0.00</b>	<b>0.00</b>	<b>470.90</b>	<b>171878.50</b>	<b>470.90</b>	<b>171878.50</b>
Water Availability from other Sources other than Ground Water (B)								
1	Surface Water Availability	0	0.00	0.00	0.00	0.00	0.00	0.00
2	Water Supply From Other Agencies	0	0.00	0.00	0.00	0.00	0.00	0.00
3	Recycled Water Generated / Used	365	0.00	0.00	267.90	97783.50	267.90	97783.50
	<b>TOTAL (AVAILABILITY)</b>		<b>0.00</b>	<b>0.00</b>	<b>267.90</b>	<b>97783.50</b>	<b>267.90</b>	<b>97783.50</b>
Net Ground Water Requirement (C)								
1	Ground Water Required through Abstraction Structure	0	0.00	0.00	203.00	74095.00	203.00	74095.00
2	Dewatering	0	0.00	0.00	0.00	0.00	0.00	0.00
	<b>TOTAL (GROUND WATER REQUIREMENT)</b>		<b>0.00</b>	<b>0.00</b>	<b>203.00</b>	<b>74095.00</b>	<b>203.00</b>	<b>74095.00</b>

**GROUNDWATER STRUCTURE PROPOSED**

S.No.	TYPE OF STRUCTURE	No. OF STRUCTURE COUNT
1	Borewell	2


## ATTACHMENTS

NAME	Remark	File
Document as proof of new establishment / commencement of operation i.e. Consent to Establish/ Environmental Clearance/ building plan approval or any other document from a statutory agency ( OR) Consent to Operate for existing projects from State Pollution Control Board or letter from MoEF, or letter from State level Environmental Impact Assessment Authority or any other letter from statutory agencies indicating date of commencement of project		
Certificate of non/partial availability of water from local government water supply agency in respect of all categories of assessment units.		
Ground water quality report of existing / nearby ground water abstraction structure from NABL accredited/govt. approved lab		
Completion Certificate from the Concerned Agency		
Affidavit regarding installation of STP (For New Projects) in case water requirement is more than 20 KLD		
Copy of Rain Water Harvesting Plan submitted to Government agency by the applicant or a proposal for rain water harvesting/ recharge in the project premises as per the prevailing Model Building Bye Laws issued by Ministry of Housing & Urban Affairs, Government of India		
Any other document	Other documents including land document, Water Balance, NBC Calculation and Wetland certificate.	
Additional Documents	Terms of reference (TOR) has been obtained from MoEFCC vide File No. 21-273/2024-IA.III dated 02.09.2024. Accordingly, draft EIA/EMP report is being prepared & will be submitted shortly to Assam Pollution Control Board (PCBA) for the conduct of Public Hearing (PH). Copy of Environmental Clearance will be submitted to CGWA after received from Concerned Authority (Copy of TOR Letter is attached for the reference)	

## PAYMENTS

Receipt No	Payment Amount	Receipt Date	
3780	10000.00	13-03-2025	<a href="#">View Receipt</a>



  
 GOVERNMENT OF ASSAM  
 TRANSPORT DEPARTMENT: D BLOCK:: 4 TH FLOOR :: JANTA BHAWAN  
 DISPUR:: GUWAHATI-781006

NO :- TMV. 298/2019(VOL III)/1158

Dated :- 23/04/2022

FROM : Shri Hanif Noorani, ACS,  
Joint Secretary to the Govt. of Assam  
Transport Department, Dispur, Guwahati-6.

To : The Regional Executive Director (NER),  
Airport Authority of India, Guwahati.

Sub : Handing/Taking over possession of land for Greenfield Airport at Silchar.

Ref : DC Cachar's letter No CRS-1/2022/29 dated 22/04/2022.

Sir,

With reference to the subject above, I am directed to inform you that Deputy Commissioner Cachar has passed necessary order for allotment of 2500 Bigha land for proposed Greenfield Airport at Silchar in favour of Transport Department, Govt of Assam. This land is to be further handed over to Airport Authority of India (AAI) for execution of development/ construction works.


Accordingly, Govt. of Assam in Transport Department proposes to hand over the land to AAI immediately for further needful action from their end.

You are requested kindly depute authorized representative of AAI for taking over possession of the land on 26/04/2022 at site (Silchar) and the same may kindly be confirmed/ intimated to this end.

Matter may please be treated as urgent.

A copy of letter under reference is endorsed for your kind perusal.

Yours Faithfully

  
 Joint Secretary to Govt. of Assam  
 Transport Department

Memo No. TMV. 298/2019(VOL III)/1158 ( A )

Dated :- 23/04/2022

1. The Deputy Commissioner Cachar for kind information and with request to make all arrangements for formal handing / taking over of the land.
2. P.S. to the Hon'ble Minister Transport for kind appraisal of the Hon'ble Minister.
3. P.A. to the Secretary to Govt. of Assam Transport Department for kind appraisal of the Secretary.
4. P.A. to the Commissioner of Transport for kind appraisal of the Commissioner Transport.
5. Office File

  
 Joint Secretary to Govt. of Assam  
 Transport Department



GOVERNMENT OF ASSAM  
TRANSPORT DEPARTMENT  
DISPUR:::GUWAHATI-06

Block-D, Fourth Floor, Janata Bhawan, transport.govt.assam@gmail.com

No.TMV.298/2019(Vol-III)/1207

Dated Dispur the 4<sup>th</sup> August, 2022.

From : ShriAdil Khan, IAS,  
Secretary to the Govt. of Assam,  
Transport Department, Dispur. Guwahati-6.

To : The Chairman, Airports Authority of India,  
Rajiv Gandhi Bhawan,  
Safdarjung Airport, New Delhi-110003.

Ref : DO No.AV-29012/101/2022-AD/221409-F dated 16/06/2022.

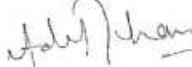
Sub : Regarding setting up of Greenfield Airport at Doloo T. E., Cachar, Assam.

Sir,

With reference to the subject cited above, I am directed to inform you that 2500 Bighas of land has been allotted to Transport Department, Govt. of Assam for setting up of a Greenfield Airport at Doloo T.E., Cachar, Assam and additional land required will be subsequently arranged for.

You are therefore, requested kindly to take necessary action for setting up of the Greenfield Airport at Doloo T.E., Cachar, Assam and to apply for necessary clearance as per the Greenfield Airport Policy.

Yours faithfully,

  
Secretary to the Govt. of Assam,  
Transport Department


Memo No.TMV.298/2019(Vol-III)/1207-A

Dated Dispur the 4<sup>th</sup> August, 2022.

Copy to:-

1. The Secretary, Ministry of Civil Aviation, Govt. of India, New Delhi for kind information.
2. Smt. Rubina Ali, Joint Secretary, Ministry of Civil Aviation, Govt. of India, New Delhi for kind information.
3. PPS to Hon'ble Chief Minister, Assam for kind information.
4. PS to Hon'ble Minister, Transport, Assam for kind information of Hon'ble Minister.

By order etc,

  
Joint Secretary to the Govt. of Assam,  
Transport Department



# Quality Council of India

National Accreditation Board for  
Education & Training



## Certificate of Accreditation

**Vardan Environet, Gurugram**

**Plot No. 82-A, Sector 5, IMT Manesar, Gurugram, Haryana**

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast/ underground mining	1	1 (a) (i)	A
2	Offshore & Onshore Oil and gas exploration, development & production	2	1 (b)	B
3	River Valley projects	3	1 (c)	A
4	Thermal power plants	4	1 (d)	B
5	Coal washeries	6	2 (a)	A
6	Mineral beneficiation	7	2 (b)	A
7	Metallurgical industries (ferrous & non-ferrous)	8	3 (a)	A
8	Cement Plants	9	3(b)	A
9	Coke oven plants	11	4 (b)	A
10	Chemical fertilizers	16	5 (a)	A
11	Petro-chemical complexes	18	5 (c)	A
12	Synthetic organic chemicals industry	21	5 (f)	A
13	Distilleries	22	5 (g)	A
14	Sugar Industry	25	5 (j)	B
15	Oil & gas transportation pipeline, passing through national parks/ sanctuaries/coral reefs /ecologically sensitive Areas including LNG terminal	27	6 (a)	A
16	Isolated storage & handling of hazardous chemicals	28	-	B
17	Airports	29	7 (a)	A
18	Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes	31	7 (c)	A
19	Highways	34	7 (f)	A
20	Building and construction projects	38	8 (a)	B
21	Townships and Area development projects	39	8 (b)	B

**Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated April 21, 2023 posted on QCI-NABET website.**

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/23/2751 dated May 01, 2023. The accreditation needs to be renewed before the expiry date by Vardan Environet, Gurugram following due process of assessment.

Sr. Director, NABET  
Dated: May 01, 2023

Certificate No.  
NABET/EIA/2326/RA 0284

Valid up to  
May 04, 2026

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.



**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**VARDAN ENVIROLAB LLP**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

Plot No. 82A, Sector 5, IMT Manesar, Gurgaon, Haryana

in the field of

**TESTING**

**Certificate Number** TC-6299

**Issue Date** 28/08/2024

**Valid Until** 27/08/2026

**This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))**

**Name of Legal Entity : Vardan Envirolab LLP**

**Signed for and on behalf of NABL**



89076970100030000312

*N. Venkateswaran*  
**N. Venkateswaran**  
**Chief Executive Officer**