



Ref No: GIAL/CAO/F-20/10/2024-25

Date: 18/09/2024

To,

The Member Secretary,
Pollution Control Board Assam
Bamunimaidam, Guwahati – 781021

Subject: Submission of Environmental Statement for the financial year ending 31st March 2024 for "Lokpriya Gopinath Bordoloi International Airport" Guwahati by M/s Guwahati International Airport Limited (GIAL).

Ref: Consolidated Consent to Operate and Authorization (CCA) vide letter no. WB/GUW/T-4105/20-21/18/272, dated 06th May 2022

Dear Sir,

With reference to the above-mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for "Lokpriya Gopinath Bordoloi International Airport" Guwahati for the financial year 2023-2024 ending on March 31st, 2024.

Kindly consider the above submission and acknowledge it.

Thanking you,

Yours Sincerely,

Ashwin Noronha

Chief Airport Officer
Guwahati International Airport Limited
LGBI Airport, Guwahati



RECEIVED
Pollution Control Board, Assam
Bamunimaidam, Guwahati-21
25/9/24

Encl: As mentioned above.

Copy to: Regional Officer, Regional Office, Pollution Control Board Assam.

Guwahati International Airport Limited

Lokpriya Gopinath Bordoloi International Airport
Borjhar, Guwahati
Kamrup, Assam 781 015

Ph: +91 361 284 0009

www.adani.com/lqbia-guwahati-airport

Registered Office: Adani Corporate House, Shantigram, S G Highway, Ahmedabad - 382421, Gujarat, India

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

FORM V
(See Rule 14)

Environmental Statement for the period from April 2023 to 31st March 2024

PART – A

- (i) Name and address of the Owner/
Occupier of the Industry Operation or
Process : Mr. Ashwin Noronha
Chief Airport Officer
Guwahati International Airport Ltd (GIAL)
Lokpriya Gopinath Bordoloi International Airport
Borjhar, Guwahati
Kamrup, Assam
781017
- (ii) Industry Category : Red-Large
Primary (STC Code) : NA
Secondary (STC Code) : NA
- (iii) Production Capacity : No production as Airport is Service industry.
- (iv) Year of Establishment : Commercial Date of Operation (COD):
8th Oct 2021
- (v) Date of last Environment Statement
submitted : 30th Sept 2023

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

PART – B

Water and Raw Material Consumption

(i) Water Consumption*

Water Consumption Cu. Mtr./Day	178 m ³ /day
Process	Nil
Domestic & cooling	178 m ³ /day

Details	Process Water Consumption per unit of products	
	During the current financial year (2021-22)	During the current financial year (2022-23)
Water consumption per Passenger Handled*	NA	NA

* GIAL does not carry out any manufacturing process. The water consumed was mainly in Domestic Purpose & Horticulture etc.

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the current financial year (2021-22)	During the current financial year (2022-23)
Not applicable	Not applicable	Not applicable	Not applicable

* GIAL being an Airport Operator does not undergo any manufacturing or production.

* The water consumed was mainly for Domestic Purpose & Horticulture etc.

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

PART – C

Pollutants discharged to Environment/Unit of Output (Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)		Concentrations of pollutants in discharges		Percentage of variation from prescribed standards with reasons
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water	pH	--	pH	--	STP of 100 KLD (MBBR) is operational at LGBIA. While STP of 1000KLD is being developed on modular basis. The treated wastewater generated from the STP is utilized for horticulture within Airport premises. The Wastewater report is attached as Annexure 1
	Total Suspended Solids	--	Total Suspended Solids (mg/l)	---	
	BOD (5 Days @ 20 °C)	--	BOD (5 Days @ 20°C) (mg/l)	---	
	Oil & Grease	--	Oil & Grease (mg/l)	---	
	COD	--	COD (mg/l)	---	
(b) Air					<ol style="list-style-type: none"> 1. . DG Sets are provided as standby power sources and used during power failure. 2. The Height of DG Stacks as per CPCB/GPCB Standards. All the Monitored parameters are within Standards. 3. Particulate matters value within the prescribed limits stipulated by concerned regulatory authorities. 4. As a part of the Environment Monitoring program, DG set flue gas monitoring is being carried out half yearly. 5. The Analysis of the D.G Set Stack Monitoring has been carried out in FY23-24. DG Sets Stack Emission Results is enclosed as Annexure-2 <p>There is no variation from prescribed standards in terms of Air quality</p>
	Particulate Matter (PM)	--	Particulate Matter (mg/Nm ³)	--	
	Sulphur Dioxide (SO ₂)	--	Sulphur Dioxide (PPM)	--	
	Nitrogen Oxide (NO _x)	--	Nitrogen Oxide (NO _x) (PPM)	--	

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

PART – D

Hazardous Wastes

(As specified under Hazardous & Other waste Wastes Management 2016)

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2022-23)	During the current financial year (April-23 to March 2024)
(a) From Process	1 Cat. 5.1- Used /Spent Oil – 0 liters 2 Cat. I-33.1- Empty barrels-NIL Cat I-33.2 Contaminated cotton rags or other cleaning materials- 0 Nos	1. Cat. 5.1- Used /Spent Oil – 870 liters 2. Cat. I-33.1- Empty barrels-NIL 3. Cat I-33.2 Contaminated cotton rags or other cleaning materials- 0 Nos
3 From Pollution Control facilities	Not applicable	Not applicable

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2022-23)	During the current financial year (2023-24)
(a) From Process	Refer <i>Annexure – 3</i>	Refer <i>Annexure – 3</i>
(b) From Pollution Control facilities	Not applicable	Not applicable

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

PART-F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- As a part of GIAL operation, an effective Solid Waste Management plan has been implemented at site, which includes:
 - ✓ Collection & Segregation of waste from the source,
 - ✓ Providing separate waste bins (for dry & wet waste) at all the locations including Airside, Landside & within the Terminals
 - ✓ Well demarcated four waste collection points nearby terminals, where the segregated waste is collected and from there, shifted to Waste yard situated at backend of the Airport.
 - ✓ Waste Yard with proper spacing has been provided for further segregation of Mixed Waste.
 - ✓ New Waste yard is under construction to enhance the facility.
 - ✓ All the waste after proper segregation is being sent to the recognized agency M/s Minakshi das enterprise for further handling and disposal.
 - ✓ Hazardous Waste at GIAL is being managed in line to the Hazardous Waste Management Rules 2016.

- As part of way forward Guwahati International Airport Ltd has its future plans for managing its wastes under 5 R principal and step ahead with a vision of Zero Waste to Landfill.

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- A sewage treatment plant (STP) (**Moving Bed Biofilm Reactor**) has been installed at GIAL for treating and handling the domestic sewage generated from airport premises.
- The treated wastewater generated from the STP is utilized for gardening and horticulture activity within GIAL premises to conserve freshwater consumption.

Energy Savings

- Installed **300 KW** of solar capacity as utilization of renewable source of energy for captive use which reduces the emission of CO₂.
- Procurement of 12 Nos of Electric Vehicles and 3 Scotty as of right away. By lowering our scope-1 emissions, this replacement will assist us in achieving Airport Carbon Accreditation (ACA) Level 4+ accreditation and Net Zero.
- The conventional lights have been replaced with LED lights in all the possible locations in the GIAL area which has reduced the total energy consumption.
- The temperature of the Chillers has increased from 7°C to 9°C as part of maintaining & controlling the temperature inside the Terminal.
- The number of chillers at airport premises has been reduced by combining the chiller lines of Arrival & Departure areas as part of energy conservation.
- Proactively controlled lighting systems are provided. The landside streetlights are operating on a timer basis according to the daylight.
- Sensitization of the team & continuous follow up is done for further improvising the Airport environmental & sustainability aspects.
- Timely maintenance of AHU's filters & coil, chillers, cooling towers is being carried out at GIAL. Regular monitoring is being carried out for the same.

Water Conservation:

- As part of water conservation, sensor-based water taps have been under installation in all the washrooms of the Terminal building at GIAL.
- For treatment of wastewater 100 KLD STP is installed & treated water from the STP is utilized for gardening & horticulture purpose.
- Following safeguard measures are taken for abatement of dust and noise emissions:
 - ✓ Regular cleaning of roads
 - ✓ D.G. Set having acoustic enclosures.
 - ✓ Adequate green cover of about 2 Acres has been developed.

Air Management:

- Ambient Air Quality Monitoring is being carried out by MoEF&CC & NABL accredited laboratory and all the results are observed to be within Stipulated Standards

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

- Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.
- 10000 saplings have been put in the terminal to improve the indoor Air quality.

Soil Management

- Environment Monitoring for Soil Analysis is being carried out by MoEF&CC and NABL accredited laboratory and all the results are under the norms inline to stipulated standards.

PART – H

Additional measures /investment/ proposal for environmental protection including abatement of pollution, prevention of pollution.

- Non-destructive Wildlife Hazard Management techniques are being practiced at GIAL as part such as organic chemical spray to control weeds & grass.
- Airside inspection is practiced at regular intervals and accordingly the wild animals such as Jackals etc. are relocated to the safer areas (forest areas) to protect them from any accidents.
- GIAL has developed & maintained an adequate Green Belt Area and developed a closed nursery at the airport site.

PART – I

Any other particulars for improving the quality of environment:

- Monitoring of environmental parameters such as Air, Noise, wastewater, and soil quality is being done regular basis through MoEF & NABL recognized laboratory.
- GIAL Budget for environmental management measures for the FY 2022-23 of **INR 2.68 Cr** was spent. Enclosed as Annexure-3.

Date :

(Signature of a person carrying out an industry,
operation or process)

Designation: **Chief Airport Officer**
Mr. Ashwin Noronha

Address: Lokpriya Gopinath Bordoloi International Airport
Borjhar, Guwahati.

Environment Statement for 2023-24 for M/s Guwahati International Airport Ltd.

**ANNEXURE - 3
Details of Waste Management of GIAL, Guwahati**

Sr. No.	Waste Description	Disposal Method	Unit	Quantity FY 2022-23	Quantity FY 2023-24
Non Hazardous					
1.	Dry Waste (Recyclable waste- Metal, Wood, paper, plastic etc.)	As per Solid Waste Rules, 2016 amended till date.	Kg	52764	49302
2.	RDF (Non-Recyclable)				
3.	Organic Waste				
4.	COVID Waste				
Others					
1	Battery waste	Auctioned & then Recycled (send to reg. recycler)	MT	161 New Batteries 230 Nos (Buyback)	Nil

**ANNEXURE - 4
Cost of Environmental Protection Measures of GIAL, Guwahati
April 23 - March 24**

Activity	Cost incurred (INR in Cr)
1) Environment & ESG	0.99
2) Horticulture	1.04
3) Engineering & Maintenance	0.65
Total	2.68