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Sardar Vallabhbhai Patel
International Airport Ahmedabad

Ref. No: AIAL/ESG/MOEFCC/292

Date: 29-11-2025

To
The Dy. Director General
Ministry of Environment, Forest and Climate Change
Integrated Regional Office - Gandhi Nagar
A Wing-407 8- 409, Aranya Bhavan, Near CH3 Circle
Setor-10A, Gandhi Nagar -382010

Subject: Half yearly Compliance reports for Environment Clearance granted vide EC letter dated 11 Nov 2022 for Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA) to Enhance the Passenger Handing Capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA

Monitoring Period: April 2025 to Sep 2025

EC Ref No: EC22B029GJ165952

Dear Sir

Sardar Vallabhbhai Patel International (SVPI) Airport, Ahmedabad was granted. Environmental Clearance (EC) vide letter no. EC22B029GJ165952 dated 11 Nov 2022 for Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA) to Enhance the Passenger Handing Capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA

With reference to the above Ahmedabad International Airport Limited hereby submit the condition-wise compliance report to Environmental Clearance mentioned for the period of April 2025 to Sep 2025 through soft copy (e-mail communication) as well as on Parivesh portal update.

Request for your kind consideration and acknowledgement.

Yours Sincerely,

For Ahmedabad International Airport Limited

Ahmedabad International Airport Limited Ahmedabad

Ashwin Noronha
(Chief Airport Officer)

Ahmedabad International Airport Limited
Terminal 1 Building, 1st Floor,
Sardar Vallabhbhai Patel International Airport
Ahmedabad 382 475, Gujarat, India

svpia-ahmedabad.adanialrports.com

CIN: U63030GJ2019PLC110076

Registered office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

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Sardar Vallabhbhai Patel
International Airport Ahmedabad

Email Copy to:

1. The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jar Bagh Road, New Delhi-110 003
2. Zonal Officer, Regional Office, CPCB - Western Region, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara - 390 023
3. Member Secretary, GPCB, Paryavaran Bhavan, Sector 10 A, Gandhi Nagar - 382 010
4. Regional Officer (Ahmedabad) - Gujarat Pollution Control Board Old Building, Sector 10- A, Gandhinagar – 302 010.
5. The Chief Conservator of Forests, MoEF Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No.3, Ravishankar Nagar, Bhopal -462 016.

Ahmedabad International Airport Limited
Terminal 1 Building, 1st Floor,
Sardar Vallabhbhai Patel International Airport
Ahmedabad: 382 475, Gujarat, India.

svpia-ahmedabad.adanianports.com

CIN: U63030GJ2019PLC110078

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	IA/GJ/MIS/81117/2006
Compliance ID	688048378
Compliance Number(For Tracking)	EC/M/COMPLIANCE/688048378/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2025
RO/SRO Name	Dr G Trinadh Kumar
RO/SRO Email	agmu174.ifs@nic.in
State	GUJARAT
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar

Note:- SMS and E-Mail has been sent to Dr G Trinadh Kumar, GUJARAT with Notification to Project Proponent.

Half Yearly Compliance Report

Sardar Vallabhbhai Patel International Airport

Ahmedabad

By:

Ahmedabad International Airport Ltd

EC granted for Master Plan Development Vide EC Dated 11/11/2022

Compliance Period:

April 2025 to Sep 2025

Ahmedabad International Airport Limited, Ahmedabad has been granted Environmental Clearance vide EC no. EC22B029GJ165952, dated 11 Nov 2022 for Proposed Expansion of Ahmedabad International Airport Limited to enhance the Passenger Handling Capacity up to 40.33 MPPA & Cargo Handling Capacity up to 1.0 MTPA.

Components	Units	Quantity
Passenger handling	MPPA	40.33
Cargo handling	MTPA	1.0

Comprehensive Compliance Report of Environmental Clearance

Duration of Compliance Report	April 2025 To Sep 2025

1. EC Identification No.	EC22B029GJ165952
2. File No.	SIA/GJ/134807/2022
3. Project Type	Expansion
4. Category	B1
5. Project/Activity including Schedule No	7(a) Airports
6. Name of Project	Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA) to Enhance the Passenger Handing Capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA.
7. Name of Company/Organization	Ahmedabad International Airport Limited
8. Location of Project	Gujarat

Particulars
No.SEIAA/GUJ/EC/7(a) 2694/2022
Date of EC granted on 11/11/2022
Environment Clearance for the Proposed Capacity Expansion of Sardar Vallabhbhai Patel international Airport (SVPIA) to Enhance the Passenger Handing Capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA., Hansol, Asarva, Naroda, Kotarpur, Sejpur bodha Sardarnagar, Ahmedabad by M/s Ahmedabad International Airport Limited, Construction project in Category 7(a) of Schedule annexed with EIA Notification dated 14/09/2006.
Proposal No.SIA/GJ/MIS/181117/2022.

Upgradation work: During Compliance period, for the passenger convenience and safety compliance consideration, required upgradation related work has been carried out. Terminal 2 refurbishment, T2 forecourt area,T2 AOCC Block, T1 sub-station, STP refurbishment, Integrated Crago Terminal, Fuel farm, code C -taxi way, new boundary wall, T2- stand 31 and 36, new RETs, bomb cooling pits, T2 sub-station are developed. **the details are mentioned in attached drawing as annexure1** - S1

CONDITION WISE COMPLIANCE

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
1	Proponent shall provide for lift, occupational health facility, life saving devices, automated external defibrillator (AED) and portable oxygen steady supply equipment's, operation working safety of the workers, bird hit prevention measures etc.	**Agreed to comply.** Lifts/ escalators are available at all required locations in the existing terminal operational areas. The Medical Examination Room is available at the terminal with important facilities like life saving devices, AED, portable oxygen steady supply equipment etc. Please see the **annexure A.1.1** Various bird hit prevention systems are provided at the site. various bird hit prevention actions as **annexure A.1.2** All these facilities and systems will be suitably upgraded, modified, and maintained as the master plan project progresses.
2	Rainwater harvesting tanks with numbers and dimensions shall be provided.	**Agreed to comply** For existing airport operations, 78 rainwater harvesting recharge pits are provided. Same will be upgraded and updated as a part of master plan development.
3	Proponent shall provide Continues Ambient Air Quality Monitoring Devises (AAQM).	**Agreed to comply.** Continuous Ambient Air Quality Monitoring (AAQM) equipment has been installed at the site. Photograph for the same already has been submitted as part of six-monthly compliance report (Oct24 to April'25) vide letter no. AIAL/ESG/HYCR/202 dated 31 May 2025.
4	Project Proponent have to submit detailed Traffic Management and decongestion reports.	**Agreed to comply** Traffic study and management plan has been submitted as part of environmental impact assessment study based on which EC has been granted dated 11 Nov 2022.
5	Proponent shall submit the details of users/visitor's arrival	**Agreed to comply**

<table>
<tr><th>#</th><th>Specific Conditions</th><th>Compliance/ Status</th></tr>
<tr><td>A</td><td>Project specific conditions</td><td></td></tr>
<tr><td></td><td>maximum and minimum and submit the plan of safety health & Environment, risk assessment and hazard identification measures etc. in 6 months' time integrated IRO.MOEF&CC and SEIAA and make a presentation for field check etc.</td><td>The report has been prepared and submitted to GPCB & IRO-MOEFCC vide letter dated 8th Dec 2022. Copy of the letter given as Annexure A5</td></tr>
<tr><td>6</td><td>The treated wastewater discharge into AMC drainage line shall not exceed 89.04 KLD. Necessary permission from AMC shall be obtained for discharging of same in the drainage line. The treated water to be discharge should meet all standard limits prescribed as per the norms of GPCB/CPCB and competent authority shall display and inform to local bodies.</td><td>Complied

Installed new Integrated STP of 1400 KLD capacity with up gradated MBR based technology of existing 500 KLD to 700 KLD

Treated wastewater reused in gardening, cooling, and toilet flushing and 84.33 KLD is discharged to AMC drainage system as per CCA. This treated sewage quantity discharge is considered only during monsoon season.
As Attached Annexure A6

Environment Monitoring is carried out regularly by MoEF&CC/ NABL approved laboratory. All the results are observed to be within permissible limits

The detailed Environment Monitoring report covering analysis report for STP treated water for the compliance period of April 2025 to Sep 2025 is attached as Annexure A6 (i).

<table>
<tr><th rowspan="2">Parameter</th><th rowspan="2">Unit</th><th colspan="2">Results</th><th rowspan="2">Limits as per G.S.R. 1265(E)</th></tr>
<tr><th>Max</th><th>Min</th></tr>
<tr><td>pH</td><td>--</td><td>7.90</td><td>7.50</td><td>6.5 - 9.0</td></tr>
<tr><td>Total Suspended Solids</td><td>mg/L</td><td>17</td><td>14</td><td>< 20.0</td></tr>
<tr><td>Biological Oxygen Demand at 27°C, 3 days</td><td>mg/L</td><td>7.14</td><td><4.00</td><td>< 10</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>#</th><th>Specific Conditions</th><th>Compliance/ Status</th></tr>
<tr><td>A</td><td>Project specific conditions</td><td></td></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>COD (chemical oxygen demand)</td><td>mg/L</td><td>28.00</td><td>12.24</td><td><50</td></tr>
<tr><td>Fecal Coliform</td><td>MPN/ 100 ml</td><td>120</td><td>17</td><td><230</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>Project Proponent shall submit CER plan to respective Collectors, DDO and Municipal Commissioner/Urban Development Authority and implement of CER activities under intimation and guidance of the respective authorities.</td><td>Agreed to comply

AIAL has granted EC from SEIAA, Gujarat vide EC no. SIA/GJ/134807/2022 dated 11.11.2020. The copy of EC has been submitted to the 5 local authorities.

Inline to EC application CER activities status is as per Annexure A7</td></tr>
<tr><td>8</td><td>PP shall take all necessary steps for fire and life safety measures for fall protection, ladders and stairs, scaffolds, trenching and excavation, electrical safety, cranes, occupational noise exposure, welding and cutting etc.</td><td>Agreed to comply
Detailed project safety risk assessment is being implemented at site. During construction and other project activities, fall protection, ladders, stairs, scaffolds, trances, electrical safety implementations, crane safety and welding and cutting safety are considered in detailed HIRA report.
This will be a dynamic document and updated as and when activity starts.

Adequate fire and safety arrangements has been provided as per local bylaws.

Adequate noise control measures have been provided at the site such as,
• Acoustic enclosures provided to DG Sets
• Vehicle speed maintenance
• All major noise generating construction activities will be carried out within the approved time frame as per norms.
• Timely maintenance of all the equipment, machinery and vehicles used at the site.</td></tr>
</table>

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
		Photographs of the same are given as **Annexure A8** Good practices Environment, health and safety
9	The total parking area approved in EC should be earmarked with number of flats and allotment must be handed over to the maintenance of society when transferred with necessary notarized undertaking abide by all conditions of EC including disposal of waste, ventilation, lighting in basement area adequately	**Not Applicable** This is an airport infrastructure development project, and no residential activities are expected. For waste management, AIAL practicing waste collection from all terminals, internal transport to waste management facility, segregation in yard, recycling of sorted waste and moving towards our organization goal of ***Zero Waste to Landfill.*** Segregated biodegradable waste is treated in organic waste converter which produces manure, used for gardening purposes. In current operations, proper ventilation and lighting is provided at all terminals and utilities area with AHU and other ventilations provision and same will be practiced during master plan work progress. Further in line with the master plan EC, AIAL ensure that, waste recovery facility is operated in line with our vision for Zero Waste to Landfill. Zero waste to landfill certification from CII auditor has been conducted with demonstrating compliance on waste management practices toward zero waste to landfill certification process and final result is platinum category rating with more than 99% waste diversion for five R principle of waste management and avoiding waste disposal to landfill disposal. The certificate is issued on 26.05.2025, and valid up to 21.02.2028 Please find the Annexure of ZWL certificate as **Annexure A9**.
10	Where construction activity is likely to cause noise nuisance to nearby	**Agreed to comply** Adequate noise control measures have been provided at the site such as,

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	residents, restrict operation hours between 7 AM to 6 PM	• Acoustic enclosures provided to DG Sets • Vehicle speed maintenance • All major noise generating construction activities will be carried out within the approved time frame as per norms. • Timely maintenance of all the equipment, machinery and vehicles used at the site. Photographs of the same are given in **Annexure A.8.**- Good practice for Environment, health and safety Further, same will be suitably continued in line to the master plan development. Regular noise monitoring will be conducted to monitor noise generation due to construction activities.
11	Hazard identification and Risk Assessment for the project shall be carried out and adequate mitigation measures shall be adopted to ensure that all safety issues are addressed, the documentation shall be reviewed periodically and shall be submitted to the regional office along with six-monthly compliance report	**Agreed to comply** For present operations, detailed HIRA is in place and the same will be suitably updated for further implementation as and when commencement of master plan project related activities.
12	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out	**Agreed to comply** Traffic study and management plan has been submitted as part of environmental impact assessment study based on which EC has been granted dated 11 Nov 2022.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	be the project or other agencies in this 05 Km radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the state Urban Development Department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments	
13	Solar power generation capacity of 3 MW shall be established as Proposed	**Agreed to comply** For the existing operations of the airport 1.4MW solar power generation facility is available. The photograph of the solar panel is attached as an **annexure A.13**
14	53 nos of rainwater recharge pits shall be provided as proposed. Rainwater harvesting structures shall conform to CGWA designs. Before recharging the surface, run off, pre-treatment must be done to remove suspended matter, oil and grease	**Agreed to comply** As a part of Rainwater harvesting structures 78 numbers of recharge pits have been provided. Further the same will be update and upgrade in line with master plan development and CGWA design norms
15	A certificate from the competent authority/ agency handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to M.S W generated from project	**Agreed to comply** For waste management, AIAL practicing waste collection from all terminals, internal transport to waste management facility, segregation in yard, recycling of sorted waste and moving and practicing towards our organization goal of *Zero Waste to Landfill*. Segregated biodegradable waste is treated in an organic waste converter which produces manure, used for gardening purposes.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
		The waste management practice at SVPI airport is shown in an **annexure A.15**
16	Fresh water requirement from local authority shall not exceed 9.5 MLD during final operational phase as committed, no ground water abstraction shall be done during construction as well as operation phase of the project.	**Agreed to comply** During construction phase, no ground water has been extracted. During operation phase, Fresh water demand for present airport operations is sourced from Ahmedabad Municipal Corporation (AMC) and ground water. The cumulative water demand is 1350 KLD. The same sources will be continued in future along with treated recycled water from STP. Required approvals from the concerned authorities will be obtained.
17	The wastewater generation shall be 5.20 MLD	**Agreed to comply** Currently, during operation phase 1110 KLD wastewater has been granted, which will be treated in 1400 KLD capacity STP of MBR technology and treated water recycled for horticulture, HAVC and 84.33 KLD is discharged to AMC drainage system as per CCA dated 25.06.2025 This treated sewage quantity discharge to AMC drainage is considered only during monsoon season as contingency plan when reuse demand is reduced due to natural rainfall and lower irrigation requirements.
18	As proposed, wastewater shall be treated in onsite STP 5.5 MILD capacity. Treated water from the STP shall be recycled and re-used for Landscaping or other purposes. There shall be no discharge of treated water from the project as proposed.	**Complied** An Integrated Sewage Treatment Plant (STP) of 1400 KLD capacity has been installed, incorporating upgraded Membrane Bioreactor (MBR) technology, enhancing the existing 500 KLD system to 700 KLD. The treated wastewater is effectively reused for gardening, cooling, and toilet flushing purposes. Additionally, 84.33 KLD of treated sewage is discharged into the AMC drainage system in accordance with the Consent to Operate (CCA)

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
		dated 25.06.2025 This discharge quantity to AMC drainage is applicable only during the monsoon season, when reuse demand is reduced due to natural rainfall and lower irrigation requirements. **As Attached Annexure A6** The detailed Environment Monitoring report covering analysis report for STP treated water for the compliance period of April 2025 to Sep 2025 is attached as **Annexure -A6 (i).**
19	The project Proponents would commission a third party study on their implementation of conditions related to the quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of a water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spay faucets attached to toilets	**Agreed to comply** Treated water will be reused for various purposes like flushing, gardening and utility. 1400 KLD integrated STP plant adequacy report is being carried out by independent third party as an **annexure A.19** Detailed study as mentioned will be carried out and frequency of monitoring will be set as per environmental monitoring plan. Water sampling for bacteriological studies will be carried out.
20	Area provided for **green belt** shall be 12.33 Ha (30.48 acre) in landside and 142.47 Ha (353.04 acre) in airside. plantation to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the detail provided in the project document.	**Agreed to comply** At present overall 7.51 Ha area on land side and 145.83 Ha in airside is maintained as green area in airport. Further, Green area will be developed in accordance with airport conceptual plan.
21	PP shall explore the use of non-ozone depleting	**Agreed to comply**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	substances in air-conditioning systems	For the existing operations, AIAL exploring ODS free ACs.
22	Multi-Level Car park (MLCP) shall be proposed for 2000-2500 vehicles in line with the business needs	**Agreed to comply** For existing airport operations we have total 2800 vehicle parking facility in which 1900 for car parking, 860 are for two wheelers and 40 parking are utilized for bus parking.
23	The pp shall also provide electric charging points in the parking areas for e-vehicles as committed	**Complied** At present, AIAL have provided 8 charging stations suitable for charging cars & buses and two wheelers. Photographs of the same are given in **an Annexure A 23** EV charging stations
24	Airport shall be in line with the DGCA guideline and must have adequate fire and safety provisions	**Agreed to comply** The existing airport has a DGCA license to operate and AIAL complying to the conditions of DGCA. Adequate fire & safety provisions are provided. All such systems will be suitably upgraded in accordance with airport master plan development. Adequate fire and safety arrangements will be provided as per local bylaws.
25	The Environmental Clearance to the project is primarily under provisions of EIA Notification 2006 The Project proponent is under obligation to obtain approvals/clearances under any other Acts Regulations or Statutes as applicable to the Project	**Agreed to comply**
B	**Standard Conditions**	**Compliance /status**
B1	**Statutory compliance**	
26	The project proponent shall obtain Consent to Establish/ operate under the provisions of Air (Prevention & control of pollution) Act, 1981 and	**Agreed to comply.** Consent to establish form state pollution control board under the provisions of Air (Prevention & control of pollution) Act, 1981 and the Water Prevention & Control of Pollution Act, 1974 from the

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	the water Prevention & control of Pollution Act, 1974 from the concerned State Pollution Control Board / Committee.	Gujarat State Pollution Control Board has been obtained vide number 58203 dated 12.10.2022 Copy the CTE is attached as **Annexure A.26.** The current Consent to Operate vide number AWH-145126, dated 25.06.2025 has been obtained from state pollution control board. Copy the CTO is attached as **Annexure A.26 (i)**
27	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project	**Agreed to comply** Fresh water demand for present airport operation has been sourced from AMC and ground water. For master plan development fresh water will be sourced from AMC, bore and recycled water from STP. The required permission will be obtained from concerned authority.
28	Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project Facilities shall be obtained	**Agreed to comply**.
29	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	**Agreed to comply** For existing airport operations, the electricity load certificate is available and the same will be suitably updated as per the stage wise power demand
30	All other statutory clearances such as the approvals of storage of diesel from chief controller of Explosives, Fire Department, civil Aviation and Department shall be obtained, as applicable by project proponents from the respective competent authorities	**Agreed to comply** As part of existing airport operations, required approvals from PESO, fire NOC etc have been taken. All similar approvals will be updated as per requirement in line with the progress of master plan activities.
B2	**Air quality monitoring and preservation**	
31	Project proponent shall install system to carry out	**Agreed to comply.**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	(Ambient Air quality monitoring for common/criterion parameters relevant to the main pollutants released (PM10 and PM2.5 in reference to PM emission, and S02 and NOx in reference to SO2, and NOx emissions) within and outside the airport area at least at four locations covering upwind and downwind directions	As part of existing airport operations and environmental monitoring plan, AIAL monitoring at 4 locations and same will be continued in line with the master plan development. The result of the AAQM are as an **annexure B.31**
32	Diesel power generating sets proposed as source of backup power should be equal to the height needed for the combined capacity of all the DG sets Use of low Sulphur diesel. The location of the DG sets may be decided within the consultation with the state pollution control board.	**Agreed to comply.** As part of existing airport operations, all the DG sets are being provided stack height in line with airport safety norms. Same will be practiced for master plan development also. AIAL would like to highlight that AIAL committed to using low Sulphur diesel fuel for all DG sets. As part of consent to established application for the master plan, details of all the proposed DG set submitted to state pollution control board, for which CTE has been granted on 12 Oct 2022.
33	Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation as to maintain the dusty material wet.	**Agreed to comply.** Construction upgradation, repair, modernization, maintenance works inline to Safety and compliance requirement, Adequate dust mitigation measures have been provided at the site such as, • Water sprinkling to prevent dust emission. • Vehicles used for material movements are covered. • Photographs of the same are given in **Annexure A.8** Good practices for Environment, health and safety
34	The excavation working area should be sprayed with	**Agreed to comply.**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	water after operation so as to maintain the entire surface wet	The surface will be kept wet by sprinkling water on the excavation site.
35	Excavated materials shall be handled and transported in a manner that they do not cause any problems of air pollution	**Agreed to comply.** Adequate dust mitigation measures have been provided at the site such as, • Water sprinkling to prevent dust emission. • Vehicles used for material movements are covered. Photographs of the same are given in **Annexure A.8** Good practices for Environment, health and safety
36	The soil/construction materials carried by the vehicle should be covered by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	**Agreed to comply.** Adequate dust mitigation measures have been provided at the site such as, • Water sprinkling to prevent dust emission. • Vehicles used for material movements are covered. Photographs of the same are given in **Annexure A.8**: Good practices for Environment, health and safety
B3	**Water quality monitoring and prevention**	
37	Run off from chemicals and other contaminants from aircraft maintenance and other area shall be suitably contained and treated before disposal. A spillage and contaminant plan shall be drawn up and implemented to satisfaction of state pollution control board	**Agreed to comply.** As part of present airport operations, the spillage control plan and storm water management plan has been implemented. The same will be updated & implemented in line with the master plan development.
38	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided	**Agreed to comply.** As part of present airport operations, adequate drainage and storm water networks were provided, Same will be upgraded in line with master plan development.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
39	The runoff from paved structures like Runways, Taxiways, can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures	**Agreed to comply.** As part of present airport operations, adequate rainwater harvesting structures were provided. Same will be upgraded in line with master plan development.
40	Adequate capacity and numbers of Storm water drains are to be built for discharging storm water from the air- field to avoid flooding/ water logging in project area. Domestic and industrial wastewater shall not be allowed to be discharged into storm water drain	**Agreed to comply.** As part of present airport operations, adequate storm water drains were provided. Same will be upgraded in line with master plan development. .
41	Rainwater harvesting for roof man-off and surface run-off as plan submitted should be implemented. Rainwater ' harvesting structures shall conform to CGWA designs. Before recharging the surface run off, pretreatment must be done to remove suspended matter, oil and grease.	**Agreed to comply.** For existing airport operations 78 number of rainwaters harvesting recharge pits are provided. Same will be update and upgraded as a part of master plan development.
42	Prior permission from competent authority shall be obtained or use of fresh water.	**Agreed to comply** Same as point no 27.
43	A certificate from the competent, 'authority for discharging treated effluent, untreated effluents into the public sewer/disposal / drainage system along with the final disposal point should be obtained	**Agreed to comply.** At present the treated wastewater is being used for gardening, and horticultural requirements after necessary tests. A new integrated Sewage Treatment Plant (STP) with a total capacity of 1,400 KLD has been installed at the airport. This includes the commissioning of a new 700 KLD STP utilizing

<table>
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<tr><td>A</td><td>Project specific conditions</td><td></td></tr>
<tr><td></td><td></td><td>advanced Membrane Bioreactor (MBR) technology, along with the upgradation of the existing 500 KLD STP to a 700 KLD MBR-based system.

treat the entire wastewater from the airport & the treated wastewater will be used for horticulture, HVAC and flushing purposes.

Required approvals from the concerned authorities will be obtained.</td></tr>
<tr><td>44</td><td>A detailed drainage plan for rainwater shall be drawn up and implemented.</td><td>Agreed to comply.

Same as point no 38.</td></tr>
<tr><td>B4</td><td>Noise monitoring and prevention</td><td></td></tr>
<tr><td>45</td><td>A noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the ministry as a part of six monthly.</td><td>Agreed to comply.
As part of existing operations, Noise monitoring surveys are being carried out at 4 locations. Detailed reports are attached as an Annexure B4.45.
Further, same will be suitably continued in line to the environmental monitoring plan to the master plan development.
Additionally, AIAL has conducted a comprehensive noise zoning and mapping study in accordance with DGCA CAR requirements, which has received DGCA approval.
The L max details are as under
<table>
<tr><th rowspan="2">Airport</th><th rowspan="2">City / Village</th><th rowspan="2">L_{Amax} dB</th><th colspan="2">Coordinates</th></tr>
<tr><th>Latitude</th><th>Longitude</th></tr>
<tr><td rowspan="2">Ahmedabad</td><td>Ghanshyam Nagar</td><td>119.4</td><td>23°03'45.27"N</td><td>72°37'07.95"E</td></tr>
<tr><td>Ambica Nagar</td><td>111.9</td><td>23°05'46.71"N</td><td>72°39'17.62"E</td></tr>
</table></td></tr>
<tr><td>46</td><td>Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and</td><td>Agreed to comply.

Adequate noise control measures have been provided at the site such as,
• Acoustic enclosures provided to DG Sets
• Vehicle speed maintenance</td></tr>
</table>

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	enclosure of noisy equipment compliance reports.	• All major noise generating construction activities will be carried out within the approved time frame as per norms. • Timely maintenance of all the equipment, machinery and vehicles used at the site. Photographs of the same are given in **Annexure A.8** good practices of Environment, health and safety Further, same will be suitably continued in line to the master plan development.
47	Acoustic enclosures for DG sets, noise barriers for ground run bays ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	**Agreed to comply.** Adequate noise control measures have been provided at the site such as, • Acoustic enclosures provided to DG Sets • Vehicle speed maintenance • All major noise generating construction activities will be carried out within the approved time frame as per norms. • Timely maintenance of all the equipment, machinery and vehicles used at the site. • Use of PPE such as ear plug Photographs of the same are given in **Annexure A.8** good practices of Environment, health and safety Further, same will be suitably continued in line to the master plan development.
48	During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations	**Agreed to comply** Same as point no 45

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
B5	**Energy conservation measures**	
49	Energy conservation measures viz. maximum use of natural Lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar streetlight, 3000 KW solar power generation' use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, rooftop thermal insulation etc. shall be implemented as proposed	**Agreed to comply** As part of existing airport operations, the following Energy conservations measures has been adopted: • LED light fixtures are installed • Water efficient faucets with auto control systems are provided. • Natural lighting adopted. • 1400 KW solar panel installed. Further in line with the master plan progress following measures will be carried out. • Energy efficient purchases such as motors and pumps etc.. • The conventional lights have been replaced with LED lights in all the possible locations which has reduced the total energy consumption. • 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 AIAL. Regular monitoring is being carried out for the same. • Our site is now operating with 62% EV vehicle and for that we have installed total 8 eV charging stations Water saving initiative – more than 44 KLD water per day saving with efficiency of cleaning improvement – total 24 robots implemented • water saving incitive cloud based irrigation system at poly house nursery • 100% wastewater generated at airport is treated in STP and utilized for gardening & horticulture purpose within the premises.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
		Thereby saving ~385 cum of fresh water per day.
B6	**Waste management**	
50	Soil stockpile shall be managed in such a manner that dust emission and sediments runoff are minimized. Ensure that, soil stockpiles are designed with no slop greater than 2:1 (horizontal: vertical)	**Agreed to comply** Adequate dust mitigation measures have been provided at the site such as, • Water sprinkling to prevent dust emission. • Vehicles used for material movements are covered. • Excavated material storage with proper slope Photographs of the same are given in **Annexure A.8**
51	The project activity shall confirm to the fly ash notification issued under the E.P. act of 1986	**Agreed to comply**
52	Solid inert waste found on construction site consist of building rubble, demolition material, concreates, bricks, timber plastic, glass metals, bitumen etc. shall be reuse, recycled or disposed as per solid waste management rules 2016 and construction and demolition waste management rules 2016.	**Agreed to comply** Solid waste will be handled as per local bylaws. Construction & Demolition Waste will be handled as per Construction & Demolition Waste Management Rules-2016.
53	Any waste from the construction and demolition activities related thereto managed so as to strictly confirmed with construction and demolition waste management rules 2016	**Agreed to comply** Construction & Demolition Waste will be handled as per Construction & Demolition Waste Management Rules-2016.
54	The project proponent shall implement management plan duly approved by state pollution control board and obtained its permissions for the safe handling and disposal of -	**Agreed to comply**

<table>
<tr><th>#</th><th>Specific Conditions</th><th>Compliance/ Status</th></tr>
<tr><td>A</td><td>Project specific conditions</td><td></td></tr>
<tr><td>55</td><td>Trash collected in light and disposed at the airport including segregation, collection and disposal</td><td>Agreed to comply</td></tr>
<tr><td>56</td><td>Toilet waste and sewage collected from aircrafts and disposed at airport</td><td>Agreed to comply</td></tr>
<tr><td>57</td><td>Waste arising out of maintenance and workshops waste arising out from eateries and shops situated inside the airport complex.</td><td>Agreed to comply</td></tr>
<tr><td>58</td><td>Hazardous and other wastes</td><td>Agreed to comply

As existing airport operations, all the hazardous waste has been handled as per hazardous waste management rules and same will be practiced for future master plan progress.</td></tr>
<tr><td>59</td><td>The solid waste shall be segregated as per norms of the solid waste management rules 2016, recycling of waste such as paper, glass produced from the terminals and aircraft caterers , metal (from aircraft maintenance site) , plastic (from aircraft, terminals and offices , wood , waste oil and solvents (from maintenance and engineering operations), kitchen waste and vegetable oils (from caterers) shall be carried out. Solid waste shall be disposed in accordance with the solid waste management rules 2016 as amended</td><td>Agreed to comply

For waste management, AIAL practicing waste collection from all terminals, internal transport to waste management facility, segregation in yard, recycling of sorted waste and moving towards our organization goal of Zero Waste to Landfill.
AMC registered vendor M/s. Sharda Enterprises is implementing Solid waste management at site. Details of solid waste generated during the compliance period of April 2025 to Sep 2025 is given below.
Other Metal waste directly disposed by AIAL to recycler also included in recyclable waste data as below.
<table>
<tr><th rowspan="2">Month</th><th>Recyclable Waste</th><th>Food Waste (Composter)</th></tr>
<tr><th>(kg)</th><th>(kg)</th></tr>
<tr><td>April-25</td><td>19708</td><td>11140</td></tr>
<tr><td>May-25</td><td>20410</td><td>11595</td></tr>
<tr><td>June-25</td><td>19228</td><td>11400</td></tr>
<tr><td>July 25</td><td>21360</td><td>10755</td></tr>
<tr><td>Aug 25</td><td>20540</td><td>11325</td></tr>
<tr><td>Sep 25</td><td>19228</td><td>11400</td></tr>
</table></td></tr>
</table>

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
		Entire recyclable waste is segregated & recycled. Food waste is being composted in organic waste Composter machine in the premises. Segregated biodegradable waste is treated in organic waste converter which produces manure, used for gardening purposes. In current operations, proper ventilation and lighting is provided at all terminals and utilities area with AHU and other ventilations provision and same will be practiced during master plan work progress. Further in line with the master plan EC, AIAL ensure that, waste segregation facility is operated in line with our vision for Zero Waste to Landfill. Please refer **Annexure A.15** for waste management practice at SVPI airport.
60	Used CFLs and TPLs should be properly collected and disposed off /sent for recycling as per the prevailing guidelines/rules in the regulatory author to avoid mercury contamination.	**Agreed to comply**
61	Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contaminated water courses, and the dump sites for such material must be secured so that they should not leach into ground water.	**Agreed to comply**
B7	**Green belt**	
62	Green belt of 12.33 Ha (30.48 acre) in landside and 142.47 Ha (353.54 acre) in the airside shall be developed with native tree species in accordance with forest department as per green belt development plan	**Agreed to comply** Greenbelt area will be developed as per airport conceptual plan.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
63	Topsoil shall be separately stored and used in the development of the green belt.	**Agreed to comply**
B8	**Public hearing and human health issues**	
64	As per the TOP issued by MOEF&CC vide file No 21-36/2022-IA-III dated 29 March 2022, public hearing was exempted by the committee ad per para 7(ii) of EIA notification 2026 and its subsequent amendments	**Agreed to comply**
65	Construction site should be adequately barricaded before the construction begins	**Agreed to comply**
66	Traffic congestion near the entry and exit points from road adjoining the airport shall be avoided. Parking should be fully internalized, and no public space should be utilized	**Agreed to comply** For existing operation, a proper traffic management system has been implemented at site as per bylaws. Adequate exit and entry gates, with exclusive spaces for taxi parking and private vehicle parking are provided at the site as per bylaws. Same will be suitably augmented and improvised in line to master plan development.
67	Provision of electromechanical door for toilets meant for disabled passengers. Children nursing/feeding room to be located conveniently near arrival and departure gates	**Agreed to comply** The same will be considered in site master plan.
68	Emergency preparedness plan based on the hazard identification and risk assessment (HIRA), and disaster management plan shall be implemented	**Agreed to comply**
69	Provision shall be made for the housing of construction	**Agreed to comply**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All the workers and labour are local people, however, adequate necessary facilities like sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, adequate PPEs etc. are provided at site for workers. Photographs of the same are given in **Annexure A.8**- Good practices for Environment health and safety
70	Occupational health surveillance of the workers shall be done on as regular bases.	**Agreed to comply** **Annexure A.8**- Good practices for Environment health and safety
B9	**Corporate environmental responsibility**	
71	The project proponent shall allocate the separate fund as committed before SEAC for activities like conversion of airport owed conventional vehicles operated of fossil fuel to electrical vehicles. Electrical vehicle charging station, solar power plant, green area development near Bhat village and surrounding areas. Activities proposed under corporate environment responsibility (CER) shall be part of Environmental management plan (EMP) as per the MOEF&CC's OM on F. No. 22-65/2017-IA.III dated 30.09.2020. The said activities shall be completed within 10 years from the commencement of the project. The CER shall be monitored, and the monitoring report shall be	**Agreed to comply** Separate budget has been utilized for various ESG related activities as per **Annexure B9.71** During compliance period, the status of CER activities as per **annexure A7**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	submitted to the regional office of MOEF&CC as part of the half -yearly compliance report and to the district collector. The monitoring report shall be posted on the website of the project proponent.	
B10	**Miscellaneous**	
72	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it all least in two local newspapers of the district or state, of which one shall be in vernacular language within seven days and in addition this shall also be displayed in project proponent website permanently.	**Complied.** Environment clearance issued by ministry has been published in English newspaper (Times of India, Ahmedabad Edition) and local newspaper (Gujarat Samachar, Ahmedabad Edition) wide dated 18 Nov 2022. Copy of the same attached as **annexure B 72** Environment clearance copy has been displayed on website Link https://svpia-ahmedabad-dev.adaniairports.com/
73	The copies of the environmental clearance shall be submitted by the project proponents to the head of local bodies, panchayats, and municipal bodies in addition to the relevant offices of the government who in turn has to display the same for 30 days for the date of receipt. The project proponent shall upload the status of the compliance to the stipulated environment clearance conditions, including results of monitoring data on their	**Complied.** Copy of Environment clearance issued by ministry has been submitted to the concerned local bodies and relevant government offices wide letter dated 27 Nov 2022. Copy of the submitted letter is given as **Annexure B 73.**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	website and update the same on half yearly basis.	
74	The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environmental conditions of the website of the ministry of environmental a, forest a climate change at environment clearance portal.	**Agreed to comply** Previous submittal of Half yearly EC compliance report given **as an Annexure B74**
75	The company shall have as well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe or standard operating procedure to have proper checks and balances and to bring into foes any infringements/deviations/violation of the environmental forest/wildlife, norms /conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental forest/wildlife norms/conditions and or shareholder's /stack holders. The copy of the board resolution in this regard shall be submitted to the MOEF&CC ad part of six-monthly reports.	**Agreed to comply** AIAL has duly approved environmental policy, to manage the environmental management plan. Copy of the same already has been submitted as part of six-monthly compliance report (Oct'24 to March25) vide letter no. AIAL/ESG/HYCR/202 dated 31 May 2025.
76	The separate development cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior executive, who will directly	Agreed to comply Site is having Head Environment to take care of Environment related functions. He reports to Chief Airport Officer who directly reports to the top management.

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	report to the head of the organization.	Site Environment Head is MSC Environment science and have more than 20 years of experience in the field of environment respectively
77	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise fund earmarked for environment protection measures shall be kept in separate accounts and not to be diverted for any other purpose. Year wise progress of the implementation of taction plan shall be reported to the ministry/regional office along with the six-monthly compliance reports.	**Agreed to comply** Adequate funds will be allocated for the compliance of the environment management plan at the time of execution of the project.
78	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	**Agreed to comply**
79	The project proponent shall submit, the environmental statement for each financial year in form -V to the concerned state pollution control board ad prescribed under the environmental (protection) rules 1986, as amended subsequently and put on the website of the company.	**Agreed to comply.** The environmental statement for each financial year is being prepared and submitted to the State Pollution Control Board regularly. the same already has been submitted as part of six-monthly compliance report (Oct'24 to March'25) vide letter no. AIAL/ESG/HYCR/202 AIAL will continue to practice the same.
80	The criteria pollution level namely PM10, PM2.5, Sox, NOx (ambient level shall be monitored and displayed at the convenient location near the main gate of the	**Agreed to comply** The Display board showing ambient air level parameters is provided at site. Photograph for the same has been given as **Annexure B.80**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	company in the public domain.	
81	The project proponent shall inform the regional office as well as the concerned authorities, commencing the land development work and start of production and operation by the project. The project authorities must strictly adhere to the stipulations made by the state pollution control board and the state government.	**Agreed to comply.** Upgradation of Airside and Landside facilities at SVPIA are being undertaken inline to Safety compliances and passenger convenience. Please refer **annexure 1**
82	The project proponent shall abide by all the commitments and recommendations made in EIA/EMP report commitment made therein.	**Agreed to comply**
83	No further expansion or modifications in the plant shall be carried out without prior approval of the ministry of environment, forest and climate change (MOEF&CC)/SEIAA.	**Agreed to comply**
84	Concealing factual data or submission of false fabricated data may result in revocation of the environmental clearance and attract actions under the provisions of environmental protection act 1980.	**Agreed to comply**
85	The ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	**Agreed to comply**
86	The ministry reserves the right to stipulate additional conditions if found necessary. The company in	**Agreed to comply**

#	Specific Conditions	Compliance/ Status
A	**Project specific conditions**	
	a time bound manner shall implement these conditions	
87	The regional office of the ministry shall monitor compliance of the stipulated conditions. The project authority should extend full cooperation to the officer(s) of the regional office by furnishing the requisite data, information, monitoring reports.	**Agreed to comply**
88	The above conditions shall be enforce, inter-alia under the provisions of the water (prevention & control of pollution act 1974, the air prevention & control of pollution act 1981, the environmental (protection) act 1986, Hazardous and other waste (management and transboundary movement) rules 2016 and public liability insurance act 1991 along with their amendments and rules and any other orders passed by the Hon'ble supreme court of India/high courts/NGT and any other court of law relating to the subject matter.	**Agreed to comply**
89	Any appeal against this EC shall lie with the national green tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the national green tribunal act 2010.	**Agreed to comply**

Annexure A1.1

Annexure A1.1

Occupational Health Facilities at AIAL

Emergency Medical Center at Terminal -1



Emergency Medical Center at Terminal – 1 and 2

Emergency Medical Support Team

with ICU on Wheels ambulance





AED kit avaiable at prominent location



Automated external defibrillators installation at both terminals

Annexure A.1.2

Annexure A.1.2

Bird and animal hit prevention measures

- **End to end program**- Specialized in wildlife agency handling wild life management plan with total scientific approach
- **Setting up the program of wildlife management**- the experienced manpower, removing the habitual non-performers and infusing new management lead by program manager, & team established (a) Bird Scaring Team, (b) Grass Cutting, Debris Collection and Insecticide Spraying Team, (c) Wildlife Rescue Team, and (d) Capture and Release Team, certified bird trappers, ringers, ornithologists, and veterinary doctors
- **Wildlife Rescue:** A custom cage for wildlife was fabricated and put into operation
- **Various innovation practices with expert agency**, Weaver Ant experiment at Army Cantonment, plant growth regulator, Black Light Trap catches, Pole Pigeon etc

VARIOUS INITIATIVES WITH PICTORIAL PRESENTATION

Perch Management





INSTALLATION OF ANTI PERCHING DEVICE ON INSTALLATIONS IN AIRSIDE LIKE SIGNAGE BOARDS, ELECTRIC POLES, BBA, BMA & AEROBRIDGES

Grass Management SVPIA

- There are about 12 species of grasses in SVPIA
- All of them have different growth rates, vigour and spread
- Napier grass is predominant in SVPIA and has a vigour of 22 cm growth in one week
- Hence the use of a Plant Growth Regulator (PGR) was initiated to achieve a grass cutting cycle of 15 days

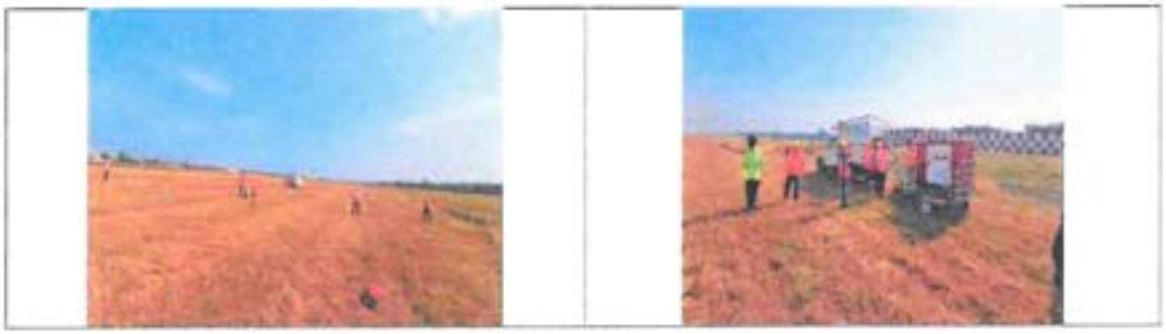






- The dose of the PGR was decided based on the species of grass in a patch
- After the grass was cut, the PGR was sprayed at an appropriate concentration
- This reduced the growth of grasses to 2 cm in 21-28 days
- SVPIA was able to achieve 10 days grass cutting cycle, a 50% reduction in debris production, 34% reduction in grass-cutting effort

Insect Management: The soil treatment of a complete strip using Entomopathogenic nematode, a natural predator of soil-born insects



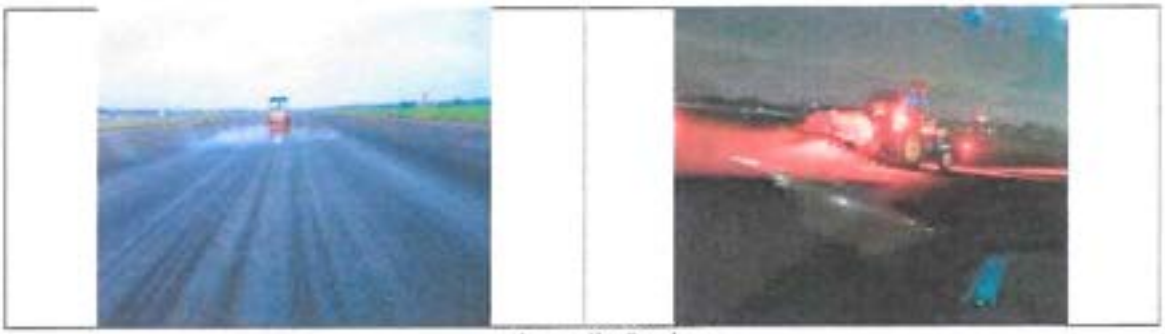
Insect traps are installed in airport



Pole Pigeon



Spray of Bird Replant on Runway



Acoustic Device



VEHICLE MOUNTED & SOLAR POWERED STATIC ACOUSTIC DEVICE

WHICH PLAYS INDIAN BIRDS DISTRESS CALLS DEVICE IS MADE IN INDIA

Wildlife management - Capturing and Relocation with scientific approach







Langoor, Birds, Cats, Dogs, Snake management with coordination by forest department

Other innovation and practices :



Implementation and maintaining of bord net of storm water drain at airside



The Black Kite capturing device 'SkyLock'

CAR Team, thermometer set up, and field notes



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Annexure .A5.

adani

AIAL/HSE/22-23/09

8th Dec 2022

To
Member Secretary
State Level Environment Impact Assessment Authority Gujarat
Gujarat Pollution Control Board,
"Paryavaran Bhavan" Sector-10 A,
Gandhinagar-382010

Subject: Environment Clearance for the Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA), Ahmedabad by M/s Ahmedabad International Airport Limited

Ref : Environmental Clearance vide File no SIA/GJ/134807/2022 dated 11th November 2022 [Project Specific Condition A (5)].

Dear Sir

This is to appraise you that Ahmedabad International Airport Ltd has obtained Environmental Clearance for the Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA) to enhance the passenger handing capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA, by State Environment Impact Assessment Authority (SEIAA), Gujarat, vide EC identification No EC22B029GJ165952, File no SIA/GJ/134807/2022 dated 11th November 2022.

In compliance to the Project Specific Condition A (5) of the said Environmental Clearance, we herewith submit you the details of passenger arrival, our Safety, Health & Environment plans, Risk Assessment and Hazard Identification measures.

We hope you will find the data in order.

Yours Sincerely
For, Ahmedabad International Airport Limited

Ahmedabad International Airport Ltd. Ahmedabad

Binu Varghese
Head – Airport Operations

Copy to:

Inspector of Regional Office, Integrated Regional Office, Ministry of Environment and Forests, Aranya Bhavan, Sector-10, Gandhinagar-382010

Ahmedabad International Airport Ltd
(Formerly known as Adani Ahmedabad International Airport Ltd)
Terminal-1 Building, 1st Floor
Sardar Vallabhbhai Patel International Airport
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Annexure A6

Phase 1: A new 700 KLD STP with MBR based technology is installed (integrated STP with 1400 KLD)

Treated water is being utilized for horticulture use, cooling tower make up and toilet flushing

As System upgradation, we are also proposing to upgrade existing 500 KLD STP plant to 700 KLD MBR based STP in coming months so that our cumulative STP capacity will be integrated 1400 KLD with MBR (Membrane Bio Reactor) based advance technology sewage plant.

Proposed-Integrated STP of 1400 KLD capacity with up gradated MBR based technology of existing 500 KLD to 700 KLD



PROCESS FLOW DIAGRAM 1400 KLD STP BASED ON MBR SYSTEM

Phase 1 : New 700 KLD STP PROCESS DESCRIPTION

Pre-treatment Unit

Pre-treatment unit shall consist of manual type fine screens for removal of floating material of size more than 6 mm, grit chamber for removal of grit and oil & grease chamber for removal of floating oil and grease. Pre-treatment unit shall be designed to handle max flow of 35 m3/hr. The fine screens shall be capable of removing most of the medium size

floating materials of sizes more than 6 mm. Oil and grease chamber for removal of floating oil & grease.

Equalization Tank

The sewage from the pre-treatment unit shall overflow to an equalization tank. The equalization tank shall be provided to dampen the flow variations and shock loading to achieve constant flow rate. Aeration facilities shall be provided at the bottom of equalization tank for mixing and to prevent deposition of solids.

Rotary Drum Screens

The sewage from equalization tank shall be pumped to mechanical rotary drum screens for removal of floating material of size more than 1 mm. Equalization tank transfer pumps will be provided to transfer the sewage from equalization tank to the rotary screen. The rotary drum screens will be designed to handle normal flow of 35 m3/hr.

Anoxic Tanks & Aeration Tanks

The sewage from rotary drum screens shall be conveyed to biological treatment system. The design shall consist of biological trains/streams, each with anoxic tank, aerobic tank and a membrane tank. Each train shall be designed for 100% of the design flow i.e 35 m3/hr (700 m3/day).

Nitrate formed in the aerobic and membrane zones, is recycled back to the anoxic zone, where it is denitrified. Anoxic tank will consist of a submersible mixer for mixing the sewage with recycle sludge from membrane tanks. Having the anoxic zone as a first zone allows for maximum influent BOD utilization for denitrification. The sewage shall overflow from the anoxic tanks to aeration tanks. Fine bubble diffusers shall be provided at the bottom of each aeration tank to supply oxygen for biological decomposition of organic matter and to keep the mixed liquor suspended solids (MLSS) in suspension. Two (1duty + 1standby) air blowers shall be provided to supply oxygen to aeration tanks. Dissolved oxygen will be monitored in each aerobic tank.

Membrane Tank

The mixed liquor from aeration tanks shall be collected in membrane tanks consisting of submerged membrane modules. Clean water shall be withdrawn from the mixed liquor through the membranes using permeate pumps (2duty +1 standby) and shall be transferred to a treated water tank through ultraviolet disinfection system. Permeate / back pulse pumps shall be taken from the treated water tank for back pulsing and cleaning the membranes. The sludge from the membrane tank shall be recycled to anoxic tanks using two (1 Duty + 1 Standby) sludge transfer pumps. Waste sludge shall be transferred to a sludge holding tank.

Irrigation Water Tank

The clean water from the membrane tank shall be collected in the irrigation water tank.

The treated water tank shall be provided. The treated water shall be transferred to the softener to remove hardness. Treated water will be stored in a soft water tank.

Sludge Handling Units

The sludge from the membrane tank shall be stored in a sludge holding tank. The sludge shall be transferred to volute screw compactor for further dewatering using polyelectrolyte. The dewatered sludge from volute will be collected in bins and shall be disposed off. The supernatant from volute will be routed to the inlet chamber of STP.

Disinfection Units

Biologically treated sewage from the MBR tanks shall be pumped to two (1 Duty + 1 Standby) ultraviolet systems (A-30082A/B) consisting of UV lamps for destruction of pathogens. Sodium hypochlorite solution shall be dosed in the treated water tank to maintain residual chlorine of 0.1 mg/l as per MoE standards for water reuse.

Chemical Dosing System

- Sodium hypochlorite and Citric acid solutions should be used for cleaning of membrane to avoid fouling. One dosing tank and one dosing pump will be provided for each chemical.
- Sodium hypochlorite shall also be used for disinfection of treated sewage which shall be used for irrigation purposes. One dosing tank and one dosing pump will be provided for this purpose.
- Polyelectrolyte solutions shall be dosed into the sludge feed line leading to the volute to enhance de-watering of sludge. One dosing tanks and one dosing pumps will be provided for dosing of polyelectrolyte solution.

Photograph of the new STP

Aeration tank



Aeration tank



Equalisation tank /acoustic enclosued blower



Anoxic tank



MBR



Final treated



Tertiory treatement



STP plant



Annexure 6(i)

Annexure 6(i) STP analysis report summary

A new integrated Sewage Treatment Plant (STP) with a total capacity of 1,400 KLD has been installed at the airport. This includes the commissioning of a new 700 KLD STP utilizing advanced Membrane Bioreactor (MBR) technology, along with the upgradation of the existing 500 KLD STP to a 700 KLD MBR-based system. The adoption of MBR technology offers several significant environmental benefits:

- **Superior Effluent Quality:** MBR systems produce high-quality treated water with very low levels of suspended solids, BOD, COD, and pathogens. This enables safe reuse of treated wastewater for gardening, cooling, and toilet flushing, reducing the demand for fresh water and supporting water conservation initiatives.
- **Enhanced Water Recycling:** The high-quality effluent from MBR allows for 100% recycling of treated water for non-potable uses, contributing to the airport's sustainability goals and reducing the environmental impact of wastewater discharge.
- **Reduced Sludge Generation:** MBR technology operates at higher mixed liquor suspended solids (MLSS) concentrations, resulting in lower sludge production and minimizing the burden of sludge disposal.
- **Lower Chemical and Energy Consumption:** Modern MBR systems are designed for efficient operation, often requiring less chemical dosing and energy for membrane cleaning and plant maintenance compared to traditional systems.
- **Support for Zero Liquid Discharge (ZLD):** By enabling near-complete recycling and reuse of wastewater, MBR technology supports the airport's vision of achieving zero liquid discharge outside the premises.

These features not only ensure compliance with regulatory standards but also align with the airport's broader environmental and sustainability commitments, such as water positivity, zero waste to landfill, and carbon neutrality.

Treated wastewater reuse in gardening, cooling, and 84.33 KLD is discharged to AMC drainage system as per CCA dated 01/12/2020. This treated sewage quantity discharge is considered only during monsoon season.

Treated wastewater reused in gardening, cooling, and toilet flushing

The Average inlet & outlet flow data & chemical consumption data of STP for the compliance period of **April 2025 to Sep 2025** is given below:

Avg. Inlet Flow (KLD)	Outlet Flow (KLD)	Chemical Consumption (Sodium hypo-chloride) (Liter per month)
390	385	100

Note: Inlet flow includes the Backwash flow data

Environment Monitoring is carried out regularly by MoEF&CC/ NABL approved laboratory. All the results are observed to be within permissible limits. The summary of STP treated water for the period **April 2025 to Sep 2025** is given below.
The detailed Environment Monitoring report covering analysis report for STP treated water for the compliance period of Oct 2024 to March 2025 is attached as

Parameter	Unit	Results		Limits as per G.S.R. 1265(E)
		Max	Min	
pH	--	7.90	7.50	6.5 - 9.0
Total Suspended Solids	mg/L	17	14	< 20.0
Biological Oxygen Demand at 27°C, 3 days	mg/L	7.14	< 4.00	< 10
COD (chemical oxygen demand)	mg/L	28.00	12.24	<50
Fecal Coliform	MPN/ 100 ml	120	17	<230

Detailed monthly report is as below.

STP OUTLET WASTEWATER QUALITY

Sr. No.	Parameters	Unit	April-25	May-25	June-25	July-25	Aug-25	Sep-25	Std Limits
1	pH	--	7.7 @ 25 ° C	7.5 @ 25 ° C	7.9 @ 25 ° C	7.9 @ 25 ° C	7.5 @ 25 ° C	7.9 @ 25 ° C	6.5-9.0
2	Total Suspended Solids	mg/L	15	14	17	15	17	14	20
3	BOD @ 27°C for 3 Days	mg/L	7.14	<4	<4	<4	<4	<4	10
4	Chemical Oxygen Demand	mg/L	24	28	12.24	<4	<4	<4	50
5	Ammonical Nitrogen	mg/L	6.38	7	5.26	5.38	6.27	7.61	-
6	Total Phosphorus	mg/L	0.69	0.75	0.71	0.64	0.52	0.54	1
7	Total Nitrogen	mg/L	9.3	8.76	7.28	7.11	9.22	8.72	10
8	Fecal Coliform	No./100ml	120	27	23	17	23	50	230

Conclusion:

The Grab Samples are collected from Terminal-1 Sewage Treatment Plant (STP) Outlet on a monthly Basis (One grab sample per month) and the Results of sample analyzed are in compliance with statutory Norms which are mentioned on the right side of the table.

Annexure A-7

Annexure: A7

CER status on EC related to SVPIA Passenger Handling Capacity 40.33 MPPA (Issued 12/11/2022)

Sr No.	Commitment activity	Progress	Way forward
1	Conversion of airport owned conventional vehicles operated on fossil fuels to Electric vehicles - 2.8 Cr.	Rs 7.57 Crs spent till date on EV's and charging station	Already complied
2	EV vehicle charging stations - 0.6 Cr		
3	Solar Power Plant/ Purchase of renewable - 30 Cr	Nil	To be protected under proposed ISTS RE project
4	Green Area Development near Bhat village and Surrounding areas - 2 Cr	20 Lakhs spent in FY25 1.2 CR planned in CY 26.	Project team is already investing Rs 1.2 Crs in tree plantation during FY26 . Hence nothing additionally to be spent this year for tree plantation

Annexure A8

Annexure A8

A DETAILED REPORT OF CURRENT AND FUTURE MITIGATION MEASURES:

Various dust mitigation measures taken at SVPI airport

Regular water sprinkling









Regular water spraying on haul roads, construction sites, and material storage areas to suppress dust emission and Open surfaces are kept moist throughout the day

Various dust mitigation measures taken at SVPI airport	
	To minimize the dust emission at site, we are using RMC (ready missed concrete) at all the civil project activities, so that we do not require to store sand and other material at site.
Trucks carrying soil, sand, and aggregates are fully covered	

Various dust mitigation measures taken at SVPI airport	
  	
Material Stacked Property at Site & Store Room and covered with tarpoulin. For construction, we are using ready mixed concreat, so no need to store sand and concreate agregates.	
Periodic PUC checks for all vehicles at project site.	
converted 64% of our airport operation vehicles into EV vehicles	

Various dust mitigation measures taken at SVPI airport	
	
High-dust activities are zoned separately with proper wind curtains and barricades, and all construction areas along with the roads leading to or within the construction site are paved and blacktopped."	

Over and above, we have also implemented various dust mitigation measures at site to control any dust emission from the premises.

Various dust mitigation measures taken at SVPI airport		
		
Approach Road cleaning trice a day with machine - regular cleaning of operational areas to prevent secondary dust sources		

Various dust mitigation measures taken at SVPI airport



Wheel washing/cleaning mechanism is being implemented to control dust carry with truck tyres - Washing facilities installed at site exits to prevent mud and dust carryover onto public roads

We maintaining zero waste to landfill policy and 100% waste is being recycling and reuse as scientific disposal method



Certificate of Validation

Zero Waste to Landfill Achievement

Presented to

Sardar Vallabhbhai Patel International Airport

Ahmedabad International Airport Ltd
At S Post - Hirapur, Ahmedabad, Gujarat 380060

This is to certify that Sardar Vallabhbhai Patel International Airport, Ahmedabad has successfully achieved the Zero Waste to Landfill (ZWL) Platinum - Class A Rating by demonstrating outstanding leadership in waste management practices through:

- *Waste Diversion Rate: Attaining a diversion rate greater than 99.9 % from landfill through the adoption and implementation of the 5R principles – Refuse, Reduce, Repurpose, Recycle and Reclaim.*
- *Sustained Commitment: Maintaining ongoing compliance through participation in annual surveillance audits to ensure performance and adherence to ZWL principles.*

ZERO WASTE TO LANDFILL

Seema Arora
Deputy Director General
Confederation of Indian Industry

Certificate Issued on: 26th May 2025 Certificate No: CII/ZWL/2025/002

Validity of Certification: From 22 February 2025 to 21 February 2028

Various dust mitigation measures taken at SVPI airport





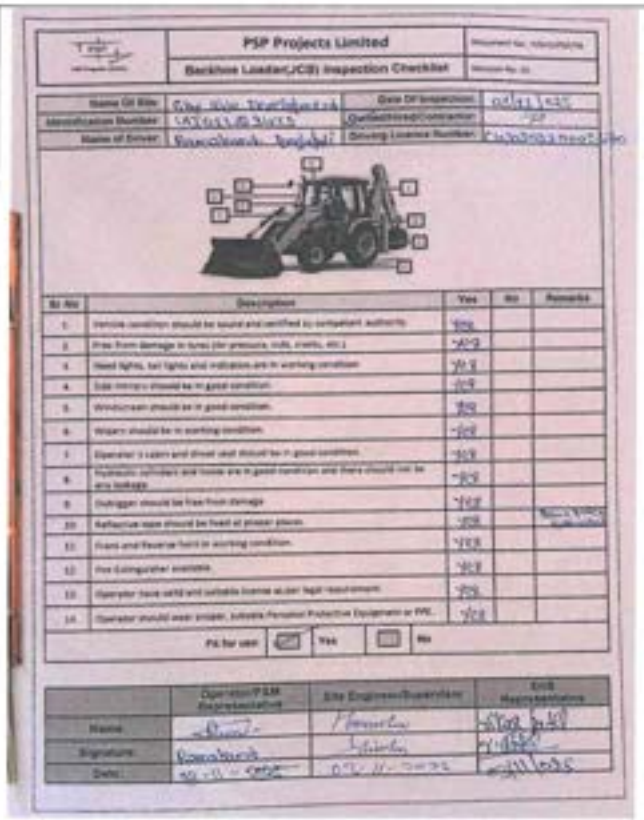
Main access road and all other open area

Automated irrigation for landscaped areas to maintain soil moisture and reduce dust from dry patches.

Dust mitigation measures displayed at construction site for easy public viewing



Regularly checking and maintenance of the construction vehicle

Various dust mitigation measures taken at SVPI airport	
	

PSP Projects Limited

Backhoe Loader(JCB) Inspection Checklist

Sr No	Description	Yes	No	Remarks
1	Vehicle condition should be sound and certified by competent authority	Yes		
2	Free from damage in tyres (Air pressure, nuts, rivets, etc.)	Yes		
3	Head lights, tail lights and indicators are in working condition	Yes		
4	Side mirrors should be in good condition	Yes		
5	Windscreen should be in good condition	Yes		
6	Wipers should be in working condition	Yes		
7	Operator's cabin and driver seat should be in good condition	Yes		
8	Hydraulic cylinders and hoses are in good condition and there should not be any leakage	Yes		
9	Outrigger should be free from damage	Yes		
10	Reflective tape should be fixed at proper places	Yes		
11	Front and Reverse horn in working condition	Yes		
12	Fire Extinguisher available	Yes		
13	Operator have valid and suitable license as per legal requirement	Yes		
14	Operator should wear proper, suitable Personal Protective Equipments or PPE	Yes		

Fit for use: Yes / No

	Operator/PSM Representative	Site Engineer/Supervisor	EHS Representative
Name			
Signature			
Date			

***

Annexure A.9

CII-ITC Centre of Excellence for Sustainable Development

Confederation of Indian Industry

Certificate of Validation

Zero Waste to Landfill Achievement

Presented to

Sardar Vallabhbhai Patel International Airport

Ahmedabad International Airport Ltd
At & Post –Hansol, Ahmedabad, Gujarat -380003

This is to certify that **Sardar Vallabhbhai Patel International Airport, Ahmedabad** has successfully achieved the **Zero Waste to Landfill (ZWL) Platinum – Class I Rating** by demonstrating outstanding leadership in waste management practices through:

- *Waste Diversion Rate: Attaining a diversion rate greater than 99.9 % from landfill through the adoption and implementation of the 5R principles — Reduce, Reuse, Repurpose, Recycle, and Recover.*
- *Sustained Commitment: Maintaining ongoing compliance through participation in annual surveillance audits to ensure conformance and adherence to ZWL principles.*

ZERO WASTE TO LANDFILL

Seema Arora
Deputy Director General
Confederation of Indian Industry

Certificate Issued on: 26th May 2025 **Certificate No.: CII/ZWL/2025/002**

Validity of Certification: *From 22 February 2025 to 21 February 2028*

This certification is awarded based on the evidence submitted and verified during the assessment period. The certified organization bears sole responsibility for the accuracy of submitted data and for maintaining ongoing compliance. For detailed terms of certification, audit findings, and evaluation methodology, please refer to the attached Annexure.

Annexure

Verification Date: 20th -21st February 2025

Verification Report No.: ZWL/Verification/2025/AIAL/SVPIA

The CII-ITC Centre of Excellence for Sustainable Development (CII-CESD) was engaged by Ahmedabad International Airport Ltd (AIAL), Hansol, Ahmedabad, Gujrat-380003 to provide assurance of their Zero Waste to Landfill (ZWL) practices.

Intended users

The intended users of this assurance statement are the management and stakeholders of Ahmedabad International Airport Ltd (AIAL). CII-CESD's responsibility was limited to the ZWL assessment and verification of applicable documentation, monitored data, and observations from the site visit, in accordance with the agreed scope of work. This engagement is based on the assumption that the information and data provided by the client are authentic, accurate, and complete.

Responsibilities of AIAL and the Assurance Provider

AIAL is solely responsible for the content and accuracy of the ZWL Report and related data. CII-CESD's assurance statement represents an independent and balanced opinion based on the information provided by AIAL.

Assurance standard

The assurance was conducted in accordance with AA1000 Assurance Standard (AA1000AS v3), Type 1, Moderate Level of Assurance, evaluating adherence to the AA1000 Accountability Principles Standard (AA1000APS 2018), namely: Inclusivity, Materiality, Responsiveness and Impact

Methodology

The assurance process involved both a desktop assessment and an on-site verification, including:

- Review of documentation and records
- Verification of waste management data
- Site inspections
- Interviews with EHS team members, waste handlers, and personnel involved in waste management

A risk-based approach was adopted, focusing on critical waste streams from generation to end-of-life. Activities included:

- Review of processes for waste mapping and identification

- Assessment of systems for data collection, consolidation, and monitoring
- Interviews with EHS and operations personnel
- Evaluation of adherence to AA1000APS principles
- Examination of landfill diversion rate calculation methodologies
- Review of waste management practices and records up to the supply chain vendors
- Verification of legal compliance documentation for waste handling

Scope and Limitations

The verification was based on the procedures, documents, records, data provided by the client, desktop assessment and site visits. Meetings, clarifications from the client through con calls. The boundary is as set out in the report covering Zero Waste to Landfill activities including the Waste Diversion Rate of AIAL. During the assurance process, we did not come across limitations to the scope of the agreed assurance engagement. As part of this assurance engagement, M/s Sharda Enterprise was also interviewed. This statement relates specifically to the information disclosed in the ZWL Report and may not be interpreted as validating environmental data reporting in other sources.

ZWL Rating Criteria

Rating Criteria Based on Waste Diversion Rate

Certificate Category	Waste Diversion Rate
Platinum	> 99 % diversion
Gold	> 95 % diversion
Silver	> 90 % diversion

Special Recognition: 5R Metrics Performance

Special Recognition Class	Diversion through 5 R's (Reduce, Reuse, Repurpose, Recycle, Recover)
Class I	> 70 %
Class II	> 50 %
Class III	> 30 %
Class IV	Up to 30 %

Findings, Conclusions, and Recommendations

The ZWL assessment at **SVPIA, Ahmedabad** was conducted on **20th and 21st February 2025** through a combination of desktop review and on-site verification. The assessment confirmed that SVPIA, Ahmedabad has implemented effective waste management practices and achieved a landfill diversion rate greater than 99.9%. Over 99.9% of waste generated for waste streams including municipal solid waste (MSW dry and wet), plastic waste, e-waste, and battery waste, hazardous waste and C&D waste have been diverted through principles like reuse, recycling, repurpose and recovery.

The submitted documentation and site observations support the conclusion that the report accurately reflects ZWL practices of SVPIA, Ahmedabad. These practices meet the criteria for Type-1, Moderate Assurance as per the AA1000 Assurance Standard (AA1000AS). The SVPIA, Ahmedabad is therefore recommended for Platinum Certification under Class I of the ZWL Rating System.

Positive Observations

- Strong leadership and commitment from top management.
- A dedicated EHS team effectively manages waste handling and monitoring.
- Demonstrated reduction in the quantity of hazardous waste, MSW (wet), plastic waste, and construction & demolition (C&D) waste generated, compared to the baseline year 2023–2024.
- Key measures were undertaken to reduce paper, plastic, and collection bag waste from airport operations including the implementation of DigiYatra, installation of hand dryers, and phase-out of PET bottles.
- Well-structured on-site systems for waste storage, labelling, segregation and transport for processing.

Recommendations

1. Ensure traceability of waste handled by off-site vendors through end-of-life tracking.
2. Secure vendor declarations confirming no landfill disposal of residual by-products post-processing.
3. Implement source reduction initiatives, such as biodegradable packaging and digital documentation to minimize the consumption of paper cardboard and cartons.
4. Identify opportunities to reduce metal waste and engage vendors for potential repurposing and reuse within SVPIA premises.
5. Make plan for C&D waste processing to manage future volumes from repair and construction.

Validity and Terms

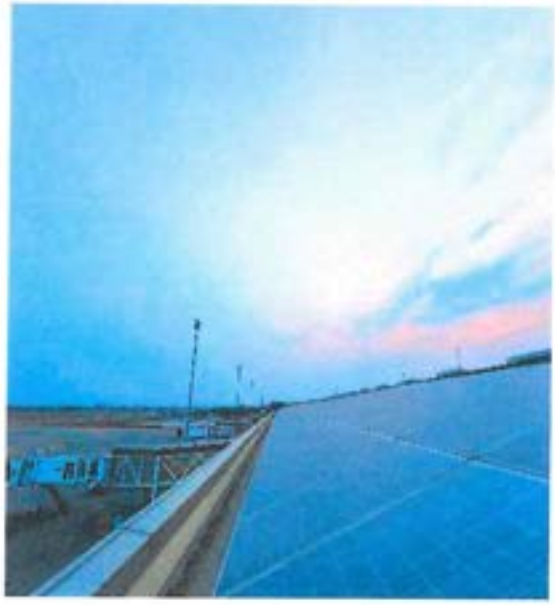
- **Initial Certification Validity:** 22nd February 2025 to 21st February 2028
- **Surveillance Requirement:** Annual surveillance audits are required to maintain certification status.
- **Non-Compliance:** CII-CESD reserves the right to revoke certification if significant deviations or non-conformances are identified.

Annexure A.13

Annexure A.13

1400 KVA solar panel installed at airport premises which contribute 6.2% of the total power consumption.





Annexure A.15

Annexure A.15.Waste management

As part of operations, 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 & Terminals
- ✓ Recycling of solid waste by engaging recyclers

More than 255 dustbins are provided at the passenger as well as staff movement areas and the collected waste is sent to 4 collection points provided (airside and city side). Later the collected waste is sent to centralized waste segregation shed, wherein waste is segregated into different categories such as recyclables and further handled in line to 5R principles.

AMC registered vendor M/s. Sharda Enterprises is implementing Solid waste management at site. Details of solid waste generated during the compliance period of **April 2025 to Sep 2025** is given below.

Other Metal waste directly disposed by AIAL to recycler also included in recyclable waste data as below.

Month	Recyclable Waste	Food Waste (Composter)
	(kg)	(kg)
April-25	19708	11140
May-25	20410	11595
June-25	19228	11400
July 25	21360	10755
Aug 25	20540	11325
Sep 25	19228	11400

Entire recyclable waste is segregated & recycled. Food waste is being composted in an organic waste Composter machine on the premises.



Collection points at total 4 locations



Waste recovery with segrigation



MRF facility for waste recovery



OWC facility for food waste processing

Zero waste to landfill certification audit conducted with demonstrating compliance on waste management practices toward zero waste to landfill certification process and final result is platinum category rating with more than 99% waste diversion for five R principle of waste management and avoiding waste disposal to landfill disposal.

AIAL announces a significant environmental milestone: the successful certification as a Zero Waste to Landfill (ZWL) Platinum—Class I Rated airport by the Confederation of Indian Industry (CII).

Dedicated Solid Waste yard and ZWL certification process.









adani

Half Yearly Environmental Monitoring Report for Ahmedabad International Airport Limited.,

April 2025 - Sep 2025





Annexure A-14

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ADITYA ENVIRON

GPCB approved schedule II auditor & ISO 17025 : 2017 NABL Accredited

Office 1 : Plot No. 190, 4th Floor, Aum Auto Hub, Vibrant Business Park, Opp. UPL Company Ltd., GIDC Vapi - 396195, Tal – Vapi, Dist –Valsad, Gujarat.

ISO/IEC 17025:2017 NABL Accredited Company	Gujarat Pollution Control Board (Govt. of Gujarat) Authorized Environmental Auditor (Schedule -II)	ISO 9001: 2015 Certified Company

Report on

Adequacy of Sewage Treatment Plant Upgradation

At

M/s. Ahmedabad International Airport Limited (AIAL)

Sardar Vallabhbhai Patel International Airport, Ahmedabad-380004, Gujarat

Prepared by:

M/s. Aditya Environ

Plot No.-190, 4th Floor, Aum Auto hub, Vibrant Business Park,
Opp. UPL Company, national highway no.-8,
GIDC- Vapi- 396195 Gujarat (INDIA).
Mo. +91-9173793913| sejalmapatel145@gmail.com/inquiryadityaenviron@gmail.com
Office 2: 607, MauryanshElanza, Shyamal Cross Road, Satellite Ahmedabad-380015

A. Adequacy Certi from Aditya Environ, Office 2 : 607, MauryanshElanza, Shyamal Cross Road, Satellite, Ahmedabad-380015
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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A. PREAMBLE

M/s. Ahmedabad International Airport Limited (AIAL) formally known as **M/s. Adani Ahmedabad International Airport Limited (Old name)** has been granted Environment Clearance from State Environment Impact Assessment Authority (SEIAA) and subsequently Consent to Establish (CTE) and Consent to Operate (CTO) from Gujarat Pollution Control Board for their domestic and international airport facility at Sardar Vallabhbhai Patel International Airport, Ahmedabad-380004.

For Expansion of Ahmedabad International Airport Limited to enhance the Passenger Handling Capacity up to 40.33 MPPA & Cargo Handling Capacity up to 1.0 MTPA, Environmental Clearance vide order no. SEIAA/GUJ/EC/7(a)/2694/2022 dt. 11/11/2022 and subsequently, TOR to CTE vide order no. 58203 dt. 12/10/2022, have been obtained by AIAL. CCA Amendment vide order no. WH-129314 dt. 27/09/2023 has also been obtained in accordance with mentioned EC and TOR to CTE and the same is valid up to 20/10/2025.

Looking to the current scenario, unit is expecting increase in number of Passengers up to 19 million per annum (MPPA) in upcoming years, there shall also be increase in F&B and retail within and outside the terminal to facilitate Pass and therefore for relevant changes which will lead to increase in utility requirements (water requirements, Waste water generation, STP capacity, Power Requirement (DG sets) etc. additionally various associated buildings components has been developed along with development of airside components like Taxiway, Aprons, RETs with respect to changes as mentioned below:

A. Adequacy Certi from GPCB Authorized Environmental Auditor (Schedule-II) vide Certificate No. GPCB/EA/Sch-II/Cat-6/10150/2023
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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- Fresh water requirement is increasing from 606 KLD to 1350 KLD and subsequently wastewater generation is increasing from 480 KLD to 1240 KLD.
- Considering increment in sewage quantity, Treatment capacity of Sewage Treatment Plant has been increased to 1400 KLD through provision of MBR technology with addition of new tanks, treatment units and modification in existing units.
- In addition to existing standby 24 numbers of D. G. Sets, there is an addition of 9 more D. G. sets with different capacities for the same standby purpose to main power supply source.
- There is no increase in hazardous waste generation, but revision in only the category number of some hazardous wastes to the appropriate ones inline to Hazardous waste rules, amended till date.

Looking to the above changes and validity of existing CCA, AIAL has applied for CCA Amendment + CCA renewal. As a part of process, AIAL has approached Aditya Environ for Adequacy regarding STP upgradation, same as asked by GPCB during application scrutiny.

Therefore, the present study is primarily aiming towards adequacy of sewage treatment plant upgradation ascertaining the quantitative and qualitative assessment of total wastewater generation vis-a-vis provision of existing and newly added treatment units with respect to their design and operational aspect to achieve prescribed norms of GPCB in treated sewage.

Details regarding water and wastewater generation, sewage treatment plant details with design parameters, wastewater characteristics and conclusion of the study are presented below point-wise;

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B. DETAILS OF WATER CONSUMPTION AND WASTEWATER GENERATION:

Details of water consumption and waste water generation is tabulated as below:

➢ **Details of Water Consumption:**

Sr. No.	Category	Existing Water Consumption (KLD)	Proposed Water Consumption (KLD)	Total Water Consumption (KLD)	Remarks
1.	Domestic	606	744	1350	Fresh water
2.	Toilet Flushing	--	80	80	Treated water
A.	**Total Domestic**	**606**	**824**	**1430**	--
B.	**Gardening**	**170**	**95**	**265**	Treated water
C.	**Industrial**				
1.	Cooling	310	500	810	Treated water
C.	**Total Industrial (C)**	**310**	**500**	**810**	--
Grand Total (A+B+C)		**1086**	**1419**	**2505**	--
Total fresh (A+B+C)		**606**	**744**	**1350**	--
Total Reuse (A+B+C)		**480**	**675**	**1155**	--

A. Adequacy Certi from Auditor (Maurya Enterprise, Ahmedabad) has been submitted vide letter dated 18.08.22

B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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➢ **Details of Wastewater Consumption:**

Sr. No.	Category	Existing wastewater Generation (KLD)	Proposed wastewater Generation (KLD)	Total wastewater Generation (KLD)	Remarks
1.	Domestic	450	580	1030	STP
2.	Toilet Flushing	--	80	80	STP
A.	**Total Domestic**	**450**	**660**	**1110**	--
B.	**Gardening**	**00**	**00**	**00**	--
C.	**Industrial**				
1.	Cooling	30	100	130	STP
C.	**Total Industrial (C)**	**30**	**100**	**130**	--
Grand Total (A+B+C)		**480**	**760**	**1240**	--
Total Reuse (A+B+C)		**480**	**675.67**	**1155.67**	--
Total Disposal (A+B+C)		**00**	**84.33**	**84.33**	--

Disposal

Domestic : Sewage treated in Sewage treatment plant and reuse again in toilet flushing, gardening and cooling.

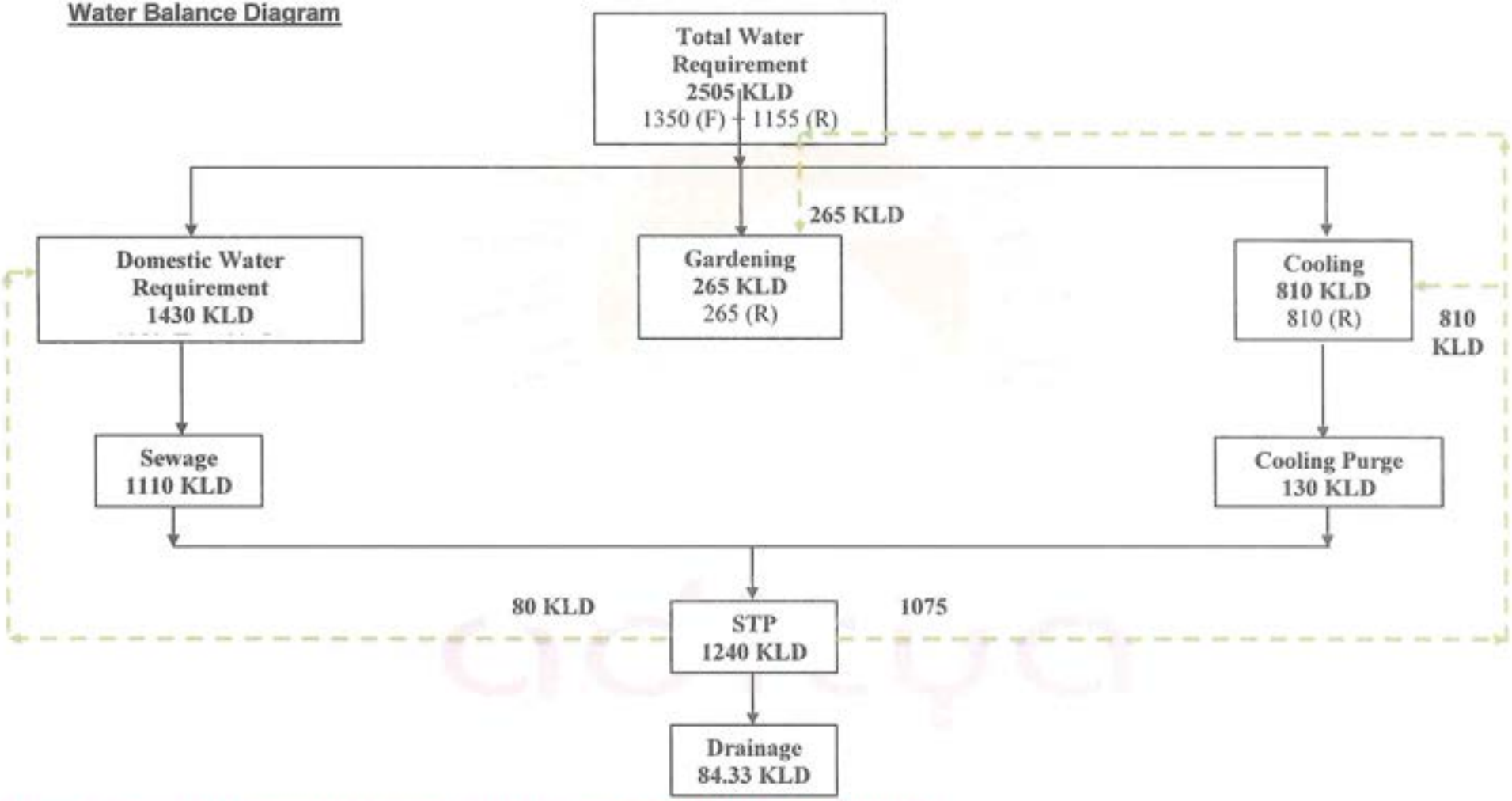
Industrial : Cooling tower blow down is treated in the sewage treatment plant along with sewage and reuse again the toilet flushing, gardening and cooling.

A. Adequacy Certi from GPCB (Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad-380015

B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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Water Balance Diagram



A. Adequacy Certi from Env. Auditor [ONLY NOC] (ACA) Uploaded in XGN on 05/04/2025 11:00:42 from IP No: 103.161.99.9.
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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C. CHARACTERSTICS OF RAW SEWAGE:

Sr. No.	Parameter	Unit	Raw Sewage Characteristics
Quantity (KLD)			1240
1	pH	pH Unit	6.5 – 8.5
2	Biochemical Oxygen Demand (BOD_5 20^0C)	mg/L	350 - 400
3	Chemical Oxygen Demand (COD)	mg/L	750 - 800
4	Total Suspended Solids (TSS)	mg/L	400 - 450
5	Total Kjeldahl Nitrogen (TKN)	mg/L	34 - 36
6	Oil & Grease (O&G)	mg/L	15 - 20
7	Fecal Coliform	MPN/100 ml	10^6

D. SEWAGE TREATMENT PLANT

Following are the details of treatment units;

Pre -Treatment Unit

Pre-treatment unit shall consist of manual type fine screen for removal of floating material of size more than 6 mm, grit chamber for removal of grit and oil & grease chamber for removal of floating oil and grease. Pre-treatment unit shall be designed to handle max flow of 35 m^3/hr. The fine screens shall be capable of removing most of the medium size floating materials of size more than 6 mm. Oil and grease chamber for removal of floating oil & grease.

Equalization Tank

The sewage from the pre-treatment unit shall overflow to an equalization tank. The equalization tank shall be provided to dampen the flow variations and shock loading to achieve constant flow rate. Aeration facility shall be provided at the bottom of equalization tank for mixing and to prevent deposition of solids.

Rotary Drum Screens

The sewage from equalization tank shall be pumped to mechanical rotary drum screens for removal of floating material of size more than 1 mm. Equalization tank transfer pumps will be provided to transfer the sewage from equalization tank to

A. Adequacy Certi from Airport Authority (Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad-380015
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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the rotary screen. The rotary drum screens will be designed to handle normal flow of 35 m3/hr.

Anoxic Tanks & Aeration Tanks

The sewage from rotary drum screens shall be conveyed to biological treatment system. The design shall consist of biological trains/streams, each with anoxic tank, aerobic tank and membrane tank. Each train shall be designed for 100% of the design flow i.e., 35 m^3/hr (700 m^3/day).

Nitrate formed in the aerobic and membrane zones, is recycled back to the anoxic zone; where it is denitrified. Anoxic tank will consist of submersible mixer for mixing the sewage with recycle sludge from membrane tanks. Having the anoxic zone as a first zone, allows for maximum influent BOD utilization for denitrification. The sewage shall overflow from the anoxic tanks to aeration tanks. Fine bubble diffusers shall be provided at bottom of each aeration tank to supply oxygen for biological decomposition of organic matter and to keep the mixed liquor suspended solids (MLSS) in suspension. Two (1 Duty + 1 Standby) air blowers shall be provided to supply oxygen to aeration tanks. Dissolved oxygen will be monitored in each aerobic tank.

Membrane Tank

The mixed liquor from aeration tanks shall be collected in membrane tanks consisting of submerged membrane modules. Clean water shall be withdrawn from the mixed liquor through the membranes using permeate pumps (2 Duty +1 Standby) and shall be transferred to a treated water tank through ultraviolet disinfection system. Permeate / back pulse pumps shall be taken from the treated water tank for back pulsing and cleaning the membranes. The sludge from the membrane tank shall be recycled to anoxic tanks using two (1 Duty + 1 Standby) sludge transfer pumps. Waste sludge shall be transferred to a sludge holding tank.

Irrigation Water Tank

The clean water from membrane tank shall be collected in irrigation water tank. The treated water tank shall be provided. The treated water shall be transferred to the softener to remove hardness. Treated water will be stored in Soft water tank.

Sludge Handling Unit

The sludge from the membrane tank shall be stored in a sludge holding tank. The sludge shall be transferred to volute screw compactor for further dewatering using polyelectrolyte. The dewatered sludge from volute will be collected in bins and shall be disposed off. The supernatant from volute will be routed to inlet chamber of STP.

A. Adequacy Certi from Gujarat Pollution Control Board, Gandhinagar vide letter dated 18/08/2021
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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Disinfection Units

Biologically treated sewage from the MBR tanks shall be pumped to two (1 Duty + 1 Standby) ultraviolet systems (A-30082A/B) consisting of UV lamps for destruction of pathogens. Sodium hypochlorite solution shall be dosed in the treated water tank to maintain residual chlorine of 0.1 mg/l as per MoE standards for water reuse.

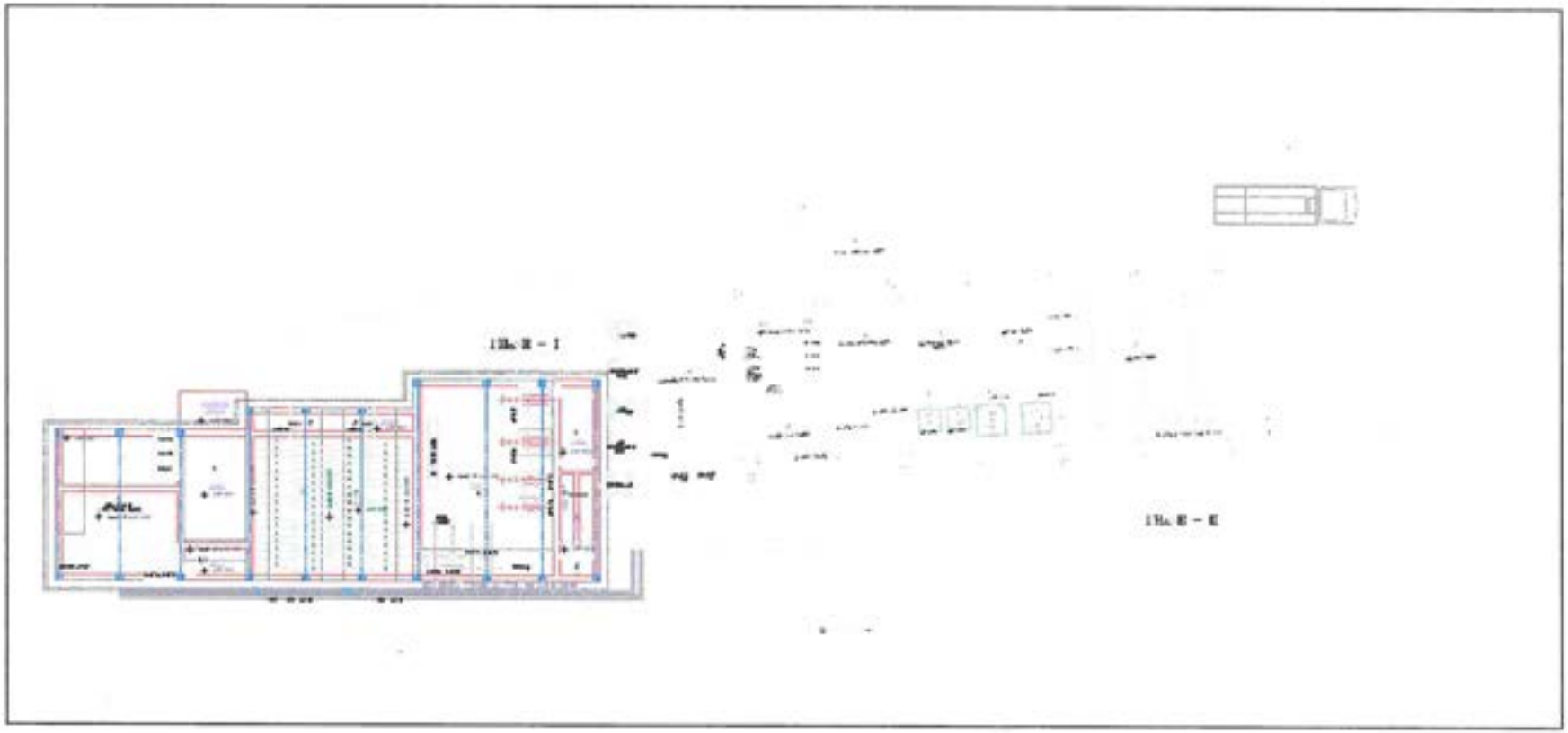
Chemical Dosing System

Sodium hypochlorite and Citric acid solutions shall be used for cleaning of membrane to avoid fouling. One dosing tank and one dosing pump will be provided for each chemical. Sodium hypochlorite shall also be used for disinfection of treated sewage which shall be used for irrigation purpose. One dosing tank and one dosing pumps will be provided for this purposed. Polyelectrolyte solution shall be dosed into the sludge feed line leading to the volute to enhance de-watering of sludge. One dosing tanks and one dosing pumps will be provided for dosing of polyelectrolyte solution.

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➢ Process Flow Diagram



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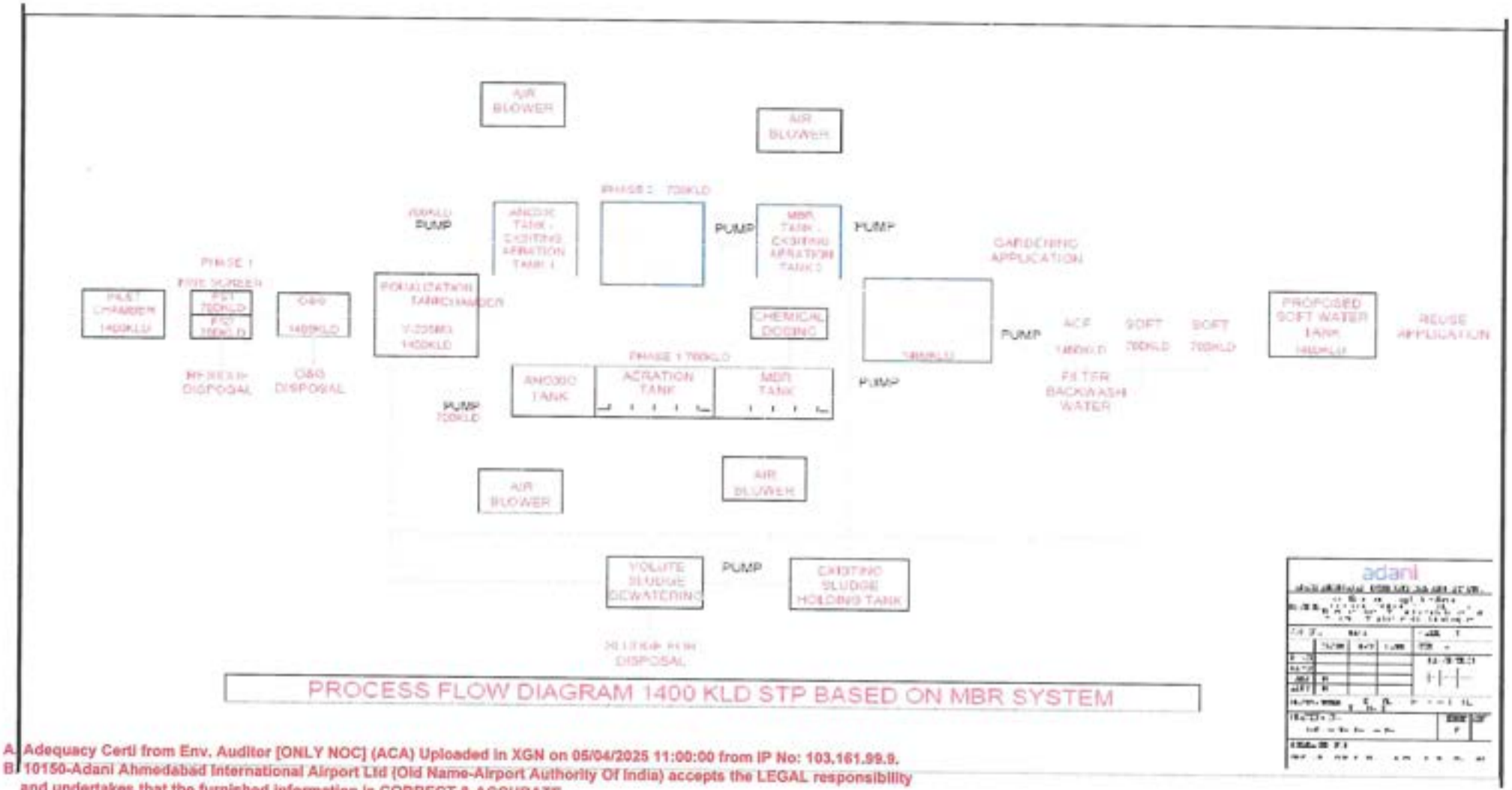
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PROCESS FLOW DIAGRAM 1400 KLD STP BASED ON MBR SYSTEM

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➢ Design Parameters of Sewage Treatment Plant

DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT						
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant					
1	**Civil Unit List**					
1-A	**Design of Inlet Chamber**					
	Peak Design Flow		$Q_{(peak)}$	=	116.667	m^3/hr
	Peak Design Flow		$Q_{(peak)}$	=	1.944	m^3/min
	Avg Flow		$Q_{(avg)}$	=	0.972	m^3/min
	Hyd. Retention peak		$HRT_{(peak)}$	=	2.00	min
	Chamber Volume		Vol	=	3.89	m^3
	Liquid Depth		d_1	=	1.20	M
	Area Required		$A_{(Sump)}$	=	3.24	m^2
	Length		L	=	1.80	m
	Length Provided				1.80	m
	Width Provided				1.80	m
	Dimensions of Unit					
		Length	L	=	1.80	m
		Width	W	=	1.80	m
		Liquid Depth	d_1	=	1.20	m
		Free Board	FB	=	0.50	m
		Total Depth	d_2	=	1.70	m
1-B	**Coarse Screen Channel at ETP Area**					
	No. of Units to be provided		Nos.	=	2	
	Unit to be designed for Average Flow		KLD	=	1400.0	
			m^3/hr	=	70.0	
	Considering 10 mm Opening and 6 mm Bar Thickness,					
	Angle of Inclination		0	=	75.0	
	Length provided		**m**	=	**4.3**	
	CHECK : MANUAL COARSE BAR SCREEN CHANNEL					
	Angle of Inclination		0	=	65	
	Dimensions of Unit			=		
		Length	L	=	**4.30**	m
		Width	W	=	**0.80**	m
		Liquid Depth	d_1	=	**0.50**	m
		Free Board	FB	=	**0.50**	m
		Total Depth	d_2	=	**1.00**	m

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT					
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant				
1-C	**Design of Oil & Grease Separator and Grit Chamber**				
	Specific gravity of particle, S_s		=	2.650	
	Diameter of particle to be removed, dp		=	0.00010	m
	Detention time		=	300	sec
	Kinematic viscosity of liquid at 25°C ,n		=	0.00000089	m^2/s
	Horizontal velocity, Vn		=	0.150	m/s
	Computation of Settling velocity:				
	i) Settling velocity of particles as per Stokes law ; Vs for 0.018 for 15mm particles		=	0.0101	m/s
	Check Renolds Number, R		=	1.128	
	ii) Settling velocity of particles as per Transitions law (Holds good when reynolds number is between 1-1000)		=	0.0117	m/s
	Actual Settling velocity of particles, Vs		=	0.0117	m/s
	Computation of Surface Over Flow Rate :				
	Under 100% removal efficiency ; Surface Over flow Rate		=	1014.234	$m^3/m^2.d$
	Computation of Actual Surface Over Flow Rate: (Q/A)				
	Assume removal efficiency		=	30.000	%
	Measure of settling basin performance (for very good performance) ; n		=	0.083	
	Actual Surface Over Flow Rate :		=	446.703	$m^3/m^2/d$
	Dimensions of grit chamber:		=		
	Peak Flow (Q_{peak})		=	2800.0	m^3/d
	Total Plan area of Grit chamber		=	6.268	m^2
	No. of grit chamber		=	1	Nos.
	Manual Type		=	1	Number
	Width of grit chamber		=	1.80	m
	length of grit chamber calculated		=	3.48	m
	Length of grit chamber provided		=	4.30	m
	Liquid depth :				
	Peak Flow		=	0.032	m^3/sec
	Assumed Detention period		=	600	sec
	Total Volume		=	19.444	m^3
	Liquid Depth cal.		=	2.51	m
	Liquid depth provided		=	2.85	m
	Computation of Critical displacement velocity,V_s				

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DEVELOPMENT OF
SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT

	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant					
	K			=	0.040	
	f			=	0.030	
	Ss			=	2.650	
	d			=	0.00010	m
	Critical displacement velocity,			=	0.131	m/s
	Horizontal velocity, Vh			=	0.003	m/s
	Check $V_h<V_c$, otherwise change water depth			=	Depth is OK	
	Grit storage			=	U/Stream	
	Assume grit content			=	0.5	m^3/kL
	Total grit content			=	1.167	m^3/day
	Cleaning interval in day			=	7.000	days
	Storage volume required			=	8.167	m^3
	Depth required for storage			=	1.055	m
	Depth provided			=	0.300	m
	Dimension of Grit Chamber					
	Length			=	4.30	m
	Width			=	1.80	m
	Liquid Depth			=	2.85	m
	Provide Grit Storage Depth			=	0.30	m
	Free board			=	0.50	m
	Total depth			=	3.65	m
1-D	**Design of Equalization Tank**					
	Tank Volume & Dimensions					
	Avg Design Flow		$Q_{(avg)}$	=	1400.00	m3/day
	HRT at Average flow		HRT	=	4.25	hours
	Storage capacity required		V=(Q(avg)) x HRT	=	247.92	m^3
	Volume required for New				247.92	m^3
	Liquid Depth		d_1	=	3.20	m
	Area		V/d1	=	77.47	m^2
	Length		L	=	11.00	m
	Width		W	=	7.04	m
	Dimensions of Unit					
		Liquid Depth	d_1	=	**3.20**	**m**
		Area	a=V/d1	=	**77.47**	**m^2**
		Width	W	=	**7.04**	**m**

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	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant							
		Length	L	=	11.00		m
		Free Board	FB	=	0.45		m
		Total Depth	d_2	=	3.65		m
	Calculation for Air Requirement						
					0.01 to 0.015		
	Air Supply Rate		ASR	=	0.01		m^3/m^3.min
	Air required		ASR x V	=	2.479		m^3/min
	Air required			=	148.75		**m^3/hour**
	PROCESS DESIGN FOR MBR SYSTEM						
1-E	**Design of Anoxic Tank (AT)**				**New**	**Existing**	
	Calculation For Reactor Volume						
	Design Flow		Q	=	700.00	700.00	m^3/day
	MLSS concentration in Anoxic tank				3500.00	3500.00	mg/l
	MLVSS Concentration in Anoxic Tank		MLSS*0.8	=	2800.00	2800.00	mg/l
	inlet TKN				36.00	36.00	ppm
	inlet NO3-N		NO_3-N		28.80	28.80	ppm
	outlet TKN				10.00	10.00	ppm
	outlet NO3-N		N_e		2.00	2.00	ppm
	RAS recycle ratio		R		0.50	0.50	
		Internal recycle ratio	(NO_3-N/N_e)-1-R		12.90	12.90	
	Flow rate to anoxic tank		IR*Q + R*Q		9380.00	9380.00	m3/day
	Amount NO3-N fed to anoxic tank Flow rate to anoxic tank*Ne				18760.00	18760.00	g/day
	Required HRT				1.00	1.00	Hrs
					0.05	0.05	day
	Volume of anoxic tank = HRT*Q		V_{anoxic}		35.00		
	Existing Aeration Tank 1 will be converted to Anoxic Tank						
	Volume of Existing Aeration Tank					60.00	m3
	Proposed HRT for Phase 2 Anoxic Tank				1.00	2.06	Hrs
	F/M ratio	(Q*inlet BOD) / (V_{anoxic} *MLVSS)			2.06	1.20	g/g. day
	Specific denitrification rate		SDNR		0.20	0.15	g/g. day

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	reduced NO3-N	V_{anoxic}*SDNR*MLVSS			19600.00	25200.00	g/day
	Capacity ratio	reduced NO3-N / Amount NO3-N fed to anoxic tank			1.04	1.34	
	No of Units			=	1.00	1.00	No
	Volume of the reactor /No. of Units		V	=	35.00	60.00	m^3
	Liquid Depth		d_1	=	4.00	4.00	M
	Area	V/ d1	A	=	8.75	15.00	m^2
	Width	Sqrt(A)	W	=	8.45	3.87	m
	Length	Sqrt(A)	L	=	1.04	3.88	m
	F. B			=	0.50	0.50	m
	Dimensions of Unit			=			
		Width	**W**	=	**8.50**	**3.90**	**m**
		Length	**L**	=	**1.00**	**3.90**	**m**
		Liquid Depth	**d_1**	=	**4.00**	**4.00**	**m**
		Free Board	**FB**	=	**0.50**	**0.50**	**m**
		Total Depth	**d_2=d1 + FB**	=	**4.50**	**4.50**	**m**
1-E-1	**Mixer for anoxic tank**						
	Power required for 1000 cum Anoxic volume			=	13	13	Kw
	Total Anoxic tank Volume			=	35.00	60.00	m3
	No. of Anoxic tank			=	1	1	Nos.
	Each Anoxic tank Volume			=	35.00	60.00	m3
	No. of mixers in each tank			=	2	2	No.
	Total No. Mixers			=	2	2	Nos.
	Power required for each anoxic mixer			=	0.455	0.78	kw
	Mech. efficiency			=	0.7	0.7	
	calculated power for each anoxic mixer			=	0.65	1.11	kw
	HP calculated			=	0.87	1.49	HP
	HP provided			=	1	2	HP
	SECONDARY TREATMENT						
1-F	**Design of Aeration Tank Phase 1**						

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	Design Flow		Q	=	700.00		m^3/day
	Assume 10% BOD Removed in Equalization Tank			=	360.00		mg/l
	BOD Inlet in Aearation Tank		BOD inlet		360.00		mg/l
	Effeciency of BOD removal		$e_{(BOD)}$	=	97.50%		%
	BOD Removal Efficiency as 50%				351.00		
	Design BOD Load		$BOD_{(daily)}$	=	245.70		kg/day
	No of Units			=	1.00		Nos.
	Loading Rate			=	0.91		Kg/m3.d
	Effective Volume of Each Tank			=	270.00		m3
	MLSS maintained in the Aeration tank				5000.00		mg/l
	MLVSS maintained in the Aeration tank				4000.00		mg/l
	F/M Calculated				0.182		
	Check for HRT = (V/Q)*24			=	**9.26**		**hrs**
	Liquid depth		d_1		4.00		m
	Area			=	67.50		m2
	Length				7.94		m
	Width				8.50		m
	Dimensions Adopted						
		Depth of Unit		=	**4.00**		**m**
		Area		=	**67.50**		**m2**
		Length		=	**7.90**		**m**
		Width		=	**8.50**		**m**
		F. B		=	**0.50**		**m**
		Total Depth	**d_2=d1 + FB**	=	**4.50**		**m**
1-F	**Design of Aeration Tank Phase 2 - *Existing Equalization Tank Converted to Aeration Tank for Phase 2 as per Process Flow Diagram***						
	Design Flow		Q	=		700.00	m^3/day
	Assume 10% BOD Removed in Equalization Tank			=		360.00	mg/l
	BOD Inlet in Aeration Tank		BOD inlet			360.00	mg/l
	Efficiency of BOD removal		$e_{(BOD)}$	=		97.50%	%
	BOD Removal Efficiency as 50%					351.00	
	Design BOD Load		$BOD_{(daily)}$	=		245.70	kg/day
	No of Units			=		1.00	Nos.
	Loading Rate			=		1.05	Kg/m^3.d

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	Required Effective Volume of aeration Tank			=		234.00	m^3
	Existing Equalization Tank will be converted to Aeration Tank						
	Existing Equalization Tank Sizes are as;						
	Length of proposed Aeration tank					8.46	m
	Width of proposed Aeration tank					8.46	m
	Liquid Depth of proposed Aeration tank					3.30	m
	Volume of proposed Aeration tank					236.19	m^3
	Required aeration tank volume is lesser than Available equalization tank volume						
	MLSS maintained in the Aeration tank					5000.00	mg/l
	MLVSS maintained in the Aeration tank					4000.00	mg/l
	F/M Calculated					0.213	
	Check for HRT = (V/Q)*24			=		**8.10**	**hrs**
	Liquid depth		d_1			3.30	m
	Area			=		71.57	m^2
	Length					8.46	m
	Width					8.46	m
	Dimensions Adopted						
		Depth of Unit		=		**3.30**	**m**
		Area		=		**71.57**	**m^2**
		Length		=		**8.46**	**m**
		Width		=		**8.46**	**m**
		F. B		=		**0.20**	**m**
		Total Depth	**d_2=d1 + FB**	=		**3.50**	**m**
1-F-1	**SLUDGE RECIRCULATION PUMP**						
	Recirculation Rate Adopted				4.00	4.00	%
	Feed Flow to Anoxic Tank				29.17	29.17	m^3/hr
	Recirculation Flow as per Design				116.67	116.67	m^3/hr
	Recirculation Flow as per MBR Vendor				117.00	117.00	m^3/hr
	Recirculation Flow as per Tender				75.00	75.00	m^3/hr
	Total No. Of Pumps				2.00	2.00	Nos.
	No. Of Pumps Working				1.00	1.00	Nos.
	No. Of Pumps Standby				1.00	1.00	No.
	Capacity of Each Pump provided				117.00	117.00	m^3/hr

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	Head				8.00	8.00	m
1-F-2	**Calculation For Aeration Equipment - Oxygen Requirements for BOD removal**						
	Applied BOD		$BOD_{(daily)}$	=	245.70	245.70	kg/d
	Oxygen Supply rate		$OSR_{(BOD)}$	=	1.10	1.10	kg/kg BOD applied
	Oxygen requirement at standard condition = BOD (daily) x OSR		$OR_{(BOD)}$	=	270.27	270.27	kg/day
	TKN Load (ammonia form)		$NH_{3(daily)}$	=	25.20	25.20	kg/d
	TKN in effluent		$TKN_{(eff)}$	=	7.00	7.00	Kg/d
	TKN going for denitrification (nitrate form) NH3(daily) – TKN (eff)		TKN (denitrification)	=	18.20	18.20	Kg/d
	Oxygen supply rate for Ammonia		OSR (nitrification)	=	4.33	4.33	Kg/kg of NH_3 applied
	Oxygen Required for Nitrification NH3(daily)x OSR (nitrification)		OR (nitrification)	=	109.12	109.12	Kg/d
	Kg O2 released per Kg of Nitrate-Nitrogen during denitrification				2.86	2.86	kg/NO_3-N
	Kg of Nitrate-Nitrogen generated				18.90	18.90	kg/d
	Kg of Nitrate Nitrogen in the Treated Sewage				2.63	2.63	kg/d
	Quantity of Nitrate Nitrogen that is denitrified				16.28	16.28	kg/d
	O_2 released during Denitrification				16.28	16.28	kg/d
	Total Oxygen Required at Standard condition OR(BOD) + OR (nitrification) - OR(Denitrification)		$OR_{(Total\ std)}$	=	363.11	363.11	Kg/d
	Oxygen transfer capacity of aeration						
	Ns = Oxygen Transfer capacity under std condition				2.00	2.00	kgO_2/kwh
	Cs = DO Saturation at operating temp				7.50	7.50	mg/L
	C = Operation DO level in aeration tank				2.00	2.00	mg/L
	T = Temperature @ 30^{0}C				30.00	30.00	°C

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	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	Total Oxygen transfer capacity under standard conditions			=	477.58	477.58	kg/day
	Alpha		α	=	0.60	0.60	
	Beta		β	=	0.90	0.90	
	Air Density		ρ (air)	=	1.20	1.20	kg/m^3
	O2 content in air		O_2 in air	=	0.23	0.23	
	Standard Oxygen Transfer Efficiency (SOTE) of Diffuser per m Depth of Submergence			=	6.00	6.00	% / m
	Liquid Level in Aeration tank during Peak Flow			=	4.00	3.30	m
	Height at which Diffusers are kept			=	0.15	0.15	m
	Effective Aeration Depth = H - I			=	3.85	3.15	m
	Efficiency of diffusers		η (diffuser)	=	0.19	0.16	
	Air Requirement OR (Total std)/ (α*β* ρ (air)*O2 in air * η (diffuser))			=	16456.72	20113.77	Nm^3/day
	Air Requirement			=	685.70	838.07	Nm^3/hr
	Blower capacity for 5% Factor of Safety			=	720.00	880.00	Nm^3/hr
	Working blower			=	1.00	1.00	No.
	Single Blower capacity			=	720.00	880.00	Nm^3/hr
	Blowers' capacity provided			=	720.00	880.00	M3/hr
	Pressure			=	0.40	0.45	kg/cm^2
1-F-3	**Air Blower Provided**						
	Air required in Equalization Tank			=	148.75	0.00	m^3/hour
	Air required in Aeration Tank			=	720.00	880.00	m^3/hour
	Air Required in Sludge Holding Tank			=	36.52	36.52	m^3/hour
	Capacity of each blower			=	905.27	916.52	m^3/hour
	Proposed Capacity of each blower			=	900.00	900.00	m^3/hour
	No of Air Blowers			=	2.00	2.00	1W+1S
	Pressure			=	0.40	0.45	Kg/Cm^2
1-F-4	**Fine Bubble Diffusers - Aeration Tank**						
	Optimum air transfer rate for each diffuser			=	7	7	m^3/hour
	Diffuser Quantity in 2 tanks			=	103	126	Nos.
	Diffuser Dia			=	90	90	mm
	Length			=	1	1	m

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	MOC			=	EPDM	EPDM	
1-G	**Design of Membrane Tank for Phase 1**						
	Design Flow		Q	=	700.00		m^3/day
	BOD inlet to MBR Tank				351.00		mg/l
	Design BOD Load		$BOD_{(daily)}$	=	245.70		kg/day
	No of Units		$MBR_{(no)}$	=	1.00		Nos.
	Efficiency of BOD removal		$e_{(BOD)}$	=	97.50%		%
	BOD Load /Aeration Tank		$BOD_{(per\ MBBR)}$	=	245.70		kg/day
	MLSS maintained in the MBR tank				12000.00		mg/l
	MLVSS maintained in the MBR tank				9600.00		mg/l
	F/M Calculated				0.3050		/day
	Effective Volume of Each Tank		V	=	67.13		m^3
	Check for HRT = (V/Q)*24			=	2.30		hrs.
	Recirculation Rate Adopted				4.00		%
	Recirculation Flow				140.00		m^3/hr
	Liquid depth		d_1		4.00		m
	Area			=	16.78		m^2
	Length				6.20		m
	Width				2.71		m
	Dimensions Adopted						
		Depth of Unit		=	**4.00**		**m**
		Area		=	**16.78**		**m^2**
		Length		=	**6.20**		**m**
		Width		=	**2.80**		**m**
		F. B		=	**0.50**		**m**
		Total Depth	**d_2=d1 + FB**	=	**4.50**		**m**
1-G	**Design of Membrane Tank Phase 2 - *Aeration Tank 2 Converted to***						
	Membrane Tank for Phase 2 as per Process Flow Diagram						
	Design Flow		Q	=		700.00	m^3/day
	BOD inlet to MBR Tank					360.00	mg/l
	Design BOD Load		$BOD_{(daily)}$	=		245.70	kg/day

A. Adequacy Certi from Aditya Environ, Ahmedabad, Satellite, Ahmedabad-380015
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	No of Units		MBR (no)	=		1.00	Nos.
	Efficiency of BOD removal		$e_{(BOD)}$	=		97.50%	%
	BOD Load /Aeration Tank		BOD (per MBBR)	=		245.70	kg/day
	MLSS maintained in the MBR tank					12000.00	mg/l
	MLVSS maintained in the MBR tank					9600.00	mg/l
	F/M Calculated					0.3500	/day
	Required Effective Volume of MBR Tank		V	=		60.00	m^3
	Check for HRT = (V/Q)*24			=		2.06	hrs.
	Recirculation Rate Adopted					4.00	%
	Recirculation Flow					116.67	m^3/hr
	Liquid depth		d_1			4.00	m
	Length of Existing Tank					3.95	m
	Width of Existing Tank					3.95	m
	Area available			=		15.60	m^2
	Liquid Depth available					4.10	m
	Volume available					63.97	m
	Dimensions Adopted						
		Depth of Unit		=		**4.00**	**m**
		Area		=		**15.60**	**m^2**
		Length		=		**4.00**	**m**
		Width		=		**4.00**	**m**
		F. B		=		**0.50**	**m**
		Total Depth	**d_2=d1 + FB**	=		**4.50**	**m**
1-G-1	**Membrane Modules and Data - As per Vendor Data**				**New**	**Existing**	
	Surface Area of Membrane			=	430.00	430.00	Sq. ft.
	Number of Trains at ADF			=	1.00	1.00	
	Number of Cassette Places per train			=	2.00	2.00	
	Total Number of Membrane Modules Installed in plant			=	24.00	24.00	nos.
	Flux (lmh) at ADF			=	30.40	30.40	LMH
	Design MLSS (mg/l) in the membrane tank			=	12000.00	12000.00	mg/l
	Design Temperature			=	25	25	Deg.

A. Adequacy Certi from Auditor (Aditya Environ) is not applicable for Activities falling under Red Category.
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT						
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant					
						Celsius
	Equipment Details - As per Vendor Data					
1-G-2	**PERMEATE PUMPS & BACKPULSE PUMPS**		=	**29.2 to 33.3 m3/hr @ 11 m Head**		
				New	Existing	
	Total No. of Pumps		=	3.00	3.00	Nos.
	No. Of Pumps Working		=	2.00	2.00	Nos.
	No. Of Pumps Standby		=	1.00	1.00	No.
	Permeate/BackPulse Pump as per Tender		=	17.50	17.50	m^3/hr
	Total capacity of Pump provided		=	35.00	35.00	m^3/hr
	Head		=	12.00	12.00	m
1-G-3	**RAS Pump - As per 2-F-1**		=	**117 m3/hr @ 8 m Head,**		
1-G-4	**MEMBRANE TANK BLOWERS**		=	**245 dm3/hr @ 0.35 Bar**		
	Total No. of Blowers		=	2.00	2.00	Nos.
	No. Of Blowers Working		=	1.00	1.00	Nos.
	No. Of Blowers Standby		=	1.00	1.00	No.
	Total capacity of Pump provided		=	245.00	245.00	m^3/hr
	Pressure		=	0.35	0.35	kg/cm^2
1-H	**UV DISINFECTION SYSTEM**					
	No. of Units provided		=	1	1	Nos.
	No. Of Units Working		=	1	1	No.
	No. Of Units Standby		=	0	0	No.
	Capacity of UV disinfection system required		=	35.00	35.00	m^3/hr
			=	583	583	L/min
	Minimum UV Dose required		=	60000	60000	uW-sec/cm^2
	Flow handled per lamp		=	36	36	l/lamp.min
	No. Of lamps required		=	16	16	Nos

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
1-I	**Design of Irrigation Water Tank - Existing Treated Water Tank**				**New**	**Existing**	
	Converted to Irrigation Water Tank for Phase I & Phase II storage						
	No of Units			=	1		
	Design Flow		Q	=	1400		m^3/day
	Length of Existing Tank		L	=	8.54		m
	Width of Existing Tank		W	=	4.68		m
	Available Surface area of Tank		A	=	39.97		m^2
	Depth of Existing Tank		d_1	=	3.4		m
	Available Volume of Tank		V	=	135.89		m^3
	Available HRT for Phase 1 & Phase 2		HRT	=	2.33		Hr
	Available HRT for Phase 1 & Phase 2		HRT	=	139.80		Min
	Dimensions Adopted			=			
		Side water Depth	**d1**	=	**3.40**		**m**
		Length		=	**8.60**		**m**
		Width		=	**4.70**		**m**
		F.B		=	**0.50**		**m**
		Total Depth		=	**3.90**		**m**
1-I-1	**Softener Feed Pump**				**New**	**Existing**	
	Total No. of Pumps			=	2.00	2.00	Nos.
	No. Of Pumps Working			=	1.00	1.00	Nos.
	No. Of Pumps Standby			=	1.00	1.00	No.
	Total capacity of Pump provided			=	35.00	35.00	m^3/hr
	Head			=	35.00	35.00	m
1-I-2	**Water Softening Unit**				**New**	**Existing**	
	Inlet Hardness			=	300.00	300.00	mg/l
	Outlet Water Hardness			=	10	10	mg/l
	OBR (Output Bet. Regeneration)			=	700	700	
	Type			=	Downflow Vertical	Downflow Vertical	
	Working Time				20	20	Hours

A. Adequacy Certi from Auditor (Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad-380015
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT							
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant						
	Max.Flow Rate			=	70.0	70.0	m^3/hour
	Avg. Design Flow		$Q_{(avg)}$	=	35.0	35.0	m^3/hour
	No of Working units		N	=	1	1	
	No of Stand By units			=	0	0	
	Flow through each unit		$Q_{(unit)}$	=	35.00	35.00	m^3/hour
	Filtration Rate max		$FR_{(max)}$	=	14	14	m/hour
	Area of each unit Required		A	=	2.50	2.50	m^2
	Frontals			=	5/6/100	5/6/100	mm
	Design Pressure				2.0-3.5	2.0-3.5	kgs/cm^2
	Regeneration Tank			=	1600X1250	1600X1250	mm
	Regeneration Time			=	90.00	90.00	min
	Media Detail						
	Media			=	Indion-225Na Resin	Indion-225Na Resin	
	Media Quantity			=	3000.00	3000.00	Liters
	Dimensions Adopted			=			
		HOS		=	**2.50**	**2.50**	m
		Diameter		=	**1.80**	**1.80**	m
1-J	**Design of Soft Water Tank - Proposed Water Tank for Phase 1 &**						
	Phase II storage						
	Avg. Flow		$Q_{(avg)}$	=	1400.00		m^3/day
	Avg. Flow		$Q_{(avg)}$	=	58.33		m^3/hr
	Dimensions Adopted			=			
		Depth		=	**4.00**		m
		Length		=	**8.00**		m
		Width		=	**5.30**		m
		F.B		=	**0.50**		m
		Total Depth		=	**4.50**		m
	No of units		N	=	1.00		no
	Volume Provided		V	=	169.60		m^3
	HRT available			=	2.91		Hrs.
	HRT available			=	174.45		Min
	SLUDGE HANDLING SYSTEM						

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DEVELOPMENT OF SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT						
	Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant					
1-K	**Design of Sludge Holding Tank**					
	Excess Biological Sludge		$S_{(wast)}$	=	354.90	kg/day
	Excess Biological Sludge		$S_{(tot)}$	=	354.90	kg/d
	Sludge Conc.			=	1.00	%
	Sludge Quantity		$S_{(Q)}$	=	35490.00	liters/day
	Sludge flow rate @ 1 Hours		SLR	=	35.49	m^3/Hour
	Length of Existing Tank		L	=	4.29	m^3
	Width of Existing Tank		W	=	2.79	m^3
	Area		A	=	11.97	m^2
	Depth of Existing Tank		d_1	=	3.39	m
	Volume of Existing Tank		V	=	40.58	m^3
	Available HRT		HRT	=	1.14	Hrs
	Dimensions Adopted			=		
		Depth		=	3.39	m
		Length		=	4.29	m
		Width		=	2.79	m
		F. B		=	0.50	m
		Total Depth		=	3.89	m
	Calculation for Air Requirement				0.01 to 0.015	
	Air Supply Rate		ASR	=	0.015	m^3/m^3 min
	Air required		ASR x V	=	0.609	m^3/min
	Air required			=	**36.5177241**	**m^3/hour**
1-K-1	**VOLUTE FEED PUMPS**					
	Total No. Of Pumps			=	2	Nos.
	No. Of Pumps Working			=	1	Nos.
	No. Of Pumps Standby			=	1	No.
	Capacity of each pump provided			=	**3**	**m^3/hr**
	Total Volume of Sludge			=	**40.58**	**m^3**
	Hours of Operation			=	**13.53**	**Hr**
	Head			=	**1.50**	**barg**

A. Adequacy Certi from Gujarat Pollution Control Board (Govt. of Gujarat) Authorized Environmental Auditor (Schedule -II)
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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DEVELOPMENT OF
SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT

Process Design Calculation for 1400 KLD capacity Sewage Treatment Plant

1-K-2	**Screw (Volute) Dehydrator**			**Phase 1**	**Phase 2**	
	Volume of Waste Sludge to be fed to Volute		=	40.58	40.58	m^3/day
	Running Time of Volute considered		=	13.53	13.53	hr/day
	No. of Volute provided		=	1.00	1.00	(1W)
	Capacity of each Volute required		=	3.00	3.00	
				3	3	m^3/hr
	Capacity of each Volute provided		=	**3**	**3**	**m^3/hr**
	Consistency of dewatered sludge		=	15.00%	15.00%	%
	Volume of dewatered sludge		=	3 / (0.15 x 1000)	3 / (0.15 x 1000)	
			=	2.366	2.366	m^3/day
	Centrate from Volute to Equalization Tank		=	38.21	38.21	m^3/day

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E. CHARACTERSTICS OF TREATED SEWAGE:

Sr. No.	Parameter	Unit	Treated Sewage Characteristics	GPCB Norms
Quantity (KLD)				
1	pH	pH Unit	7.4	5.5-9.0
2	Biochemical Oxygen Demand (BOD_5 20^0C)	mg/L	8	10
3	Chemical Oxygen Demand (COD)	mg/L	39	50
4	Total Suspended Solids (TSS)	mg/L	7	20
5	Total Nitrogen	mg/L	9	10
6	Fecal Coliform	MPN/100 ml	190 N/100	230 N/100

A. Adequacy Certi from Authority (Chairman, CPCB) for Capacity Enhancement of CETP from 10 MLD to 15 MLD.
B. 10150-Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India) accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

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F. CONCLUSION:

On the Basis of;

1. Technical information, as annexed herewith, pertaining to the above subject matter, submitted by **M/s. Ahmedabad International Airport Limited (AIAL)** are as follows:
   - List of currently existing and proposed water consumption and wastewater generation.
   - Characteristics of raw sewage, Dimension of Sewage Treatment Plant existing as well after modification.

It can be concluded that

1. The treatment facility is adequate to treated 1400 KLD wastewater.
2. Upon reviewing the details provided by the proponent and physical verification conducted on the sewage and sewage treatment plant, we conclude that the wastewater treatment system designed based on the characteristics of sewage and feasibility with respect to treatment, reuse and disposal aspects and it will be effective and sufficient, subject to the following conditions:
   Sewage is treated in dedicated sewage treatment plant regularly and efficiently and treated sewage to be used for green belt development, cooling and toilet flushing.

Our conclusions and recommendations as mentioned above are subject to automatic cancellation in case of any change takes place in treatment technology, treatment units's dimension / capacity, quality and quantity of effluents and efficiency of Sewage treatment plant units.

Date: 02/04/2025
Place: Ahmedabad

(Technical Manager)
Sejal Mayank Patel

Annexure A.23

Charging station at SVPI airport : **Total 8 Charging station**

Locations and capacity of the EV charging station	Photos
Airside : Terminal 1 : stand 74 (Oct 2024) 1# : Exicom 240 KW X1 ultra-fast charger for buses	
Airside :Terminal 2 : 1# : Mindra 240 KW X 1 ultra fast charger (CCS-II dual gun DC charger for E4W, bus) (July 2023)	
Airside :Terminal 2 1# Exicom 60 KW X1 fast charger for cars (CCS-II dual gun DC charger for E4W) (July 2023)	
At landside : Near terminal 4 (Near ATC tower) 1#: 3.3X3 kW slow charger (10kW AC001 Charger for e2W, e3W & e4W) (Aug 2023)	

Locations and capacity of the EV charging station	Photos
At landside : Near terminal 4 (Near ATC tower): 1 #: Mindra 60 X1 KW fast charger (CCS-II dual gun DC charger for E4W)	
At landside : Near terminal 4 (Near ATC tower) 1#: Mindra 40 KW X 1 fast charger (GB/T-dual gun DC charger for E4W)	
At ICT : parking area 1# 30kW CCS-II single gun DC Charger for e4W (Nov 2024)	
At ICT : parking area 1#: 10kW AC001 Charger for e2W, e3W & e4W (Nov 2024)	

Annexure A(26)

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar** 382010
Phone : (079) 23222425
(079) 23222152
Fax : (079) 23232156
Website : www.gpcb.gov.in

GPCB

Application For CTE After TOR

File No : GPCB/ (PCB ID. - 10150) 21153 CTE-58203 12/10/22

To,
M/s. Adani Ahmedabad International Airport Ltd (Old Name-Airport Authority Of India),
Plot No: Phase No:, SARDAR PATEL INTERNATIONAL AIRPORT, ,
City :AHMEDABAD ,
Dist : Ahmedabad ,
Taluka : Ahmedabad

Sub: Consent to Establish (After obtaining Terms Of Rrference For Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: (1) Your online application No. 265531 dated 26/09/2022

(2) TOR issued by Central Authority vide their letter no. 21-36/2022-IA-III Dated 29/03/2022

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (After obtaining Terms Of Rrference For Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981** for manufacturing of products as mentioned into the application of Environment Clearance (EC) for which TOR is granted vide letter under reference no (2) above.

Consent To Establish Is Granted Subject To The Following Conditions: -

1) The validity period of this CTE shall be Seven Years from the issue of this order.
2) Applicant shall strictly comply with all conditions stipulated by competent authority in the order of Environment Clearance to be issued in reference to TOR issued vide letter under reference No. : 2 above.
3) The applicant shall however , not without the prior concern of the Board. Bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the water Act - 1974, the Air - 1981 and the Environment (Protection) Act - 1986.

For and on behalf of
Gujarat Pollution Control Board

Dr. Tallika Patel
ROH - Ahmedabad (City)

- This order is issued to Plot No: Phase No:, SARDAR PATEL INTERNATIONAL AIRPORT, , City :AHMEDABAD, Dist : Ahmedabad, Taluka : Ahmedabad (10150) for CTE amendment after obtaining EC.

Annexure A (26 Ci)

GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

GPCB

BY RPAD

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6(b) of the Hazardous & other wastes (Management and Transboundary Movement) Rules'2016, framed under the EP Act-1986.

And whereas Board has received on line consolidated consents & Authorization (CC&A) Renewal cum amendment application **inward No: 332733 dated 16/05/2025** for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts Consent & Authorization is hereby granted as under.

CONSENT AND AUTHORISATION:
(Under the provisions / rules of the afore said environmental acts)

To,
M/s. Adani Ahmedabad International Airport Ltd,
(Old Name: M/s. Airport Authority of India),
Sardar Patel International Airport,
Ahmedabad – 388 009.

1. **Consent Order No: AWH-145126 Date of Issue: 25/06/2025.**
2. The **Consolidated Consent and Authorization (CC&A)** of this Board under the provisions/rules of the aforesaid Acts. Consents & Authorization consents shall be valid up to **15/05/2030** for the operation of an international terminal building at SVPI Airport.

Sr. No	Services (storage)	Facility
1.	Jet Fuel (4 Tanks)	8000 KL (Cap.2000 KL each)

SPECIFIC CONDITION:

1. **Unit shall comply with ministry of Environment & Forests order no. 10-6/2006-IA-III Dated: 31.07.2006.**
2. **Unit shall comply with state level Environment Impact Assessment Authority, Gujarat order no. SEIA/GUJ/EC/7(a)/2694/2022 Dated: 11/11/2022.**
3. **Unit shall comply with the order of the Hon'ble High Court in the matter of writ petition no.PIL 98/2021 and PIL 110/2021.**
4. **unit shall obtain PESO permission.**
5. **Industry shall renew Petroleum and Explosives Safety Organization permission time to time and submit a copy of the same to this office.**
6. **Industry shall submit compliance of Manufacturing, Storage and Import of Hazardous Chemicals Rules – 1989 framed under the Environment (Protection) Act-1989 including site notification, onsite emergency plan & safety Audit report within a month.**
7. **No ground water shall be withdrawal without prior permission from CGWA as per Hon'ble NGT order.**

8. **Industry shall obtain fresh water from valid source have permission of the competent authority.**
9. **Industry shall renew Public Liability Insurance Policy time to time & submit a copy of the same to this office.**
10. **Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).**

3.0 **CONDITIONS UNDER THE WATER ACT:**

3.1 Source of water: **AMC + Bore well.**

3.2 The quantity of industrial water consumption shall not exceed **810 KLD.**

3.3 The quantity of domestic water consumption shall not exceed **1430 KLD. (Fresh: 1350 KLD, Reuse: 80 KLD).**

3.4 The quantity of domestic effluent shall not exceed **1110 KLD.**

3.5 Generated domestic waste water shall be treated in to adequate sewage treatment plant and after treatment treated sewage shall be reused from gardening, plantation, toilet, flushing and colling purpose confirming to following standards.

Parameter	Standards
pH	5.5-9.0
BOD	10 mg/l
COD	50 mg/l
Total Nitrogen	10 mg/l
Total phosphorous	1 mg/l
Fecal Coliform (FC) (MPN/100 ml)	Desirable-100 Permissible--230

3.6 There shall be no industrial waste water generation from manufacturing process.

3.7 Flow meter shall be provided at the outlet line of the STP.

4.0 CONDITIONS UNDER THE AIR ACT:

4.1 The following shall be used as a fuel.

Sr. No.	Fuel	Quantity
1.	Diesel	2.4 KL/Hr.

4.2 The flue gas emission through stack attached to D.G.Set shall conform to the following standards:

Stack No.	Stack attached to	Stack height	APCM	Parameter	Permissible Limit
1.	D.G.Set (4 nos.) (1500 KVA)	32 m	Acoustic enclosure	Particulate matter SO_2 NO_x	150 mg/Nm^3 100 ppm 50 ppm
2.	D.G.Set (stand by) (6 Nos.) (500 KVA)	13. m	Acoustic enclosure		
3.	D.G.Set (stand by) (2 Nos.) (320 KVA)	13 m	Acoustic enclosure		
4.	D.G.Set (stand by) (2 Nos.) (250 KVA)	13 m	Acoustic enclosure		
5.	D.G.Set (stand by) (1 Nos.) (750 KVA)	13 m	Acoustic enclosure		
6.	D.G.Set (stand by) (4 Nos.) (1500 KVA)	12.5 m	Acoustic enclosure		
7.	D.G.Set (stand by) (1 Nos.) (9100 KVA)	10 m	Acoustic enclosure		
8.	D.G.Set (stand by) (1 Nos.) (1250 KVA)	12 m	Acoustic enclosure		
9.	D.G.Set (stand by) (1 Nos.) (82.5 KVA)	03 m	Acoustic enclosure		
10.	D.G.Set (stand by) (2 Nos.) (2500 KVA)	03 m	Acoustic enclosure		

4.3 There shall be no Process emission from manufacturing process & other ancillary operation.

4.4 Stack monitoring facilities like port hole, platform/ladder etc., shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.

4.5 concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder as per National Ambient Air Quality Standards issued by MoEF & CC dated 18th November-2009.In addition to following parameters Industry shall also carry out AAQ monitoring of all other applicable parameter as per MOEF notification dated 18/11/2009 and submit the report to the Board.

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient air
1.	Sulphur Dioxide (SO_2), µg/ m^3	Annual 24 Hours	50 80
2.	Nitrogen Dioxide (NO_2), µg/ m^3	Annual 24 Hours	40 80
3.	Particulate Matter (Size less than 10 µm) OR PM10 µg/ m^3	Annual 24 Hours	60 100
4.	Particulate Matter (Size less than 2.5 µm) OR PM 2.5 µg/m^3	Annual 24 Hours	40 60

4.6 **D.G. Sets Conditions:**

The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

a) The minimum height of stack to be provided with each of the generator set shall be H=h + 0.2 (KVA) 1/2, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.

b) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.

c) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.

d) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
e) All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
f) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G. Set manufacturer.
g) A proper routine and preventive maintenance procedure for the D.G. Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

4.7 The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and70 dB (A) during night time. Daytime is reckoned in between 6a.m. and10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

4.8 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted /displayed to facilitate identification.

5.0 **Authorization under Rules 6(2) of Hazardous and other Wastes [Management & Transboundary Movement] Rules – 2016. [Form -2]**

Form for grant of authorization for occupier or operator handling Hazardous waste.

5.1 **Number of authorization: AWH-145126 Date of Issue: 25/06/2025.**

5.2 **M/s. Adani Ahmedabad International Airport Ltd (Old Name: M/s. Airport Authority of India),** is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, treatment, storage, transport of hazardous waste on the premises situated **Sardar Patel International Airport, Ahmedabad – 388 009.**

Sr. No	Hazardous Waste	Quantity	Schedule Category	Method of Disposal
1.	Used Oil	7 KL/yr	I – 5.1	Collection, Storage, Transportation & disposed by selling to Registered recycler
2.	Sludge & Filters contaminated with oil	100 kg/yr	I-33.2	Collection, Storage, Transportation & disposal by selling to registered recycler
3.	Waste residue containing oil/oily rags	510 kg/yr	I-37.3	Collection, Storage, Transportation & disposal by co processing/ CHWIF site.
4.	Discarded Drums	100 Nos. (2 MT/yr)	I-33.1	Collection, Storage, Transportation & disposal by selling to authorized decontamination facility.

5.3 The authorization shall be valid upto **15/05/2030**.

5.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

5.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.5.2 to the industry having valid CCA of this Board.

GPCB

GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

5.6 **TERMS AND CONDITIONS OF AUTHORISATION**

1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a beach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous and Other Waste Rules, 2016.
9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
11. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
12. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.
16. In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.

18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.

6.0 SPECIFIC CONDITIONS:-

6.1 The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

6.2 Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.

6.3 In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.

6.4 The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.

6.5 Unit shall comply provisions of E-Waste Management Rules-2016.

6.6 The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.

6.7 The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding ninety days. Prior permission of the Board shall be obtained for extension of the storage period.

6.8 The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.

6.9 The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

7 GENERAL CONDITIONS: -

7.0 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.

7.1 Applicant shall also comply with the general conditions given in annexure I.

7.2 Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standards laid down such information shall be forthwith reported to Board, concerned Police Station, Office of Directorate of Health Service, Department of Explosives, Inspectorate of Factories and local body.

7.3 In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.

7.4 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.

7.5 The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.

7.6 The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.

7.7 In case of change of ownership/management the name and address of the new owners/ partners/directors/proprietor should immediately be intimated to the Board.

7.8 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme order in w.p. no. 657 of 1995 dated 14th October 2003.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(T.C.Patel)
Unit Head

No. GPCB/ABD/AMC/CCA-519(6)/ID:10150/ **Date:**

ISSUED TO:
M/s. Adani Ahmedabad International Airport Ltd,
(Old Name: M/s. Airport Authority of India),
Sardar Patel International Airport,
Ahmedabad – 388009.

Annexure B.31.

Annexure B 31

3.0 DATA ANALYSIS

Half yearly Environmental monitoring during month of ***April-2025 to September-2025*** consisted of collection and analysis of samples of various environmental attributes like

- Ambient air quality for Primary Pollutants
- Ambient Air Quality for 12 Parameters as NAAQ Notification
- Flight Path area Noise Level;

The collected samples have been analyzed and the data has been compiled and presented in this Chapter.

3.1 Ambient Air Quality

Sampling was carried out twenty-four hours at each station every month during the study period using pre-calibrated Respirable Dust Samplers. In each of the stations earmarked, samples were collected for Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO2), Ground Level Ozone as O3 , Carbon Monoxide as CO, Hydro Carbons Respirable Particulate Matter PM2.5 & PM10 were collected at twenty four hourly intervals and same were sent to field Laboratory for analysis. The Analysis Results are Presented in **Table - 3.1 to Table-3.5.**

And Rest of the parameters as per National Ambient Air Quality Notification 2009(NAAQ). Were monitored once in every Quarter in each location. And the Results presented in **Table-3.6.**

TABLE - 3.1
AMBIENT AIR QUALITY DATA STP COLONY-AIR SITE

Date of Sampling	Location Code: AAQ1						
	Location Name: Near STP Colony-Air Site						
	Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
01/04/2025	35.11	75.94	24.06	25.64	13.8	533	BDL
04/04/2025	36.59	77.1	23.26	25.17	13.5	529	BDL
08/04/2025	35.2	74	23.88	25.64	12.7	522	BDL
11/04/2025	36.87	78.38	23.53	25.4	12.4	533	BDL
15/04/2025	35.8	77.25	24.35	26.11	12.4	533	BDL
18/04/2025	34.09	74.97	23.49	25.87	12.7	535	BDL
22/04/2025	34.57	76.55	22.1	26.58	13.1	519	BDL
25/04/2025	35.36	78.91	22.72	26.81	13.4	522	BDL
29/04/2025	34.58	75.3	23.62	26.58	13.7	527	BDL
02/05/2025	36.2	76.84	23.01	25.4	14.1	535	BDL
06/05/2025	31.04	68.7	18.78	18.58	10.8	478	BDL
09/05/2025	29.41	66.59	21.6	23.52	11.7	503	BDL
13/05/2025	31.25	67.81	23.41	24.7	12.5	511	BDL
16/05/2025	33.4	70.11	24.24	25.4	12.8	515	BDL
20/05/2025	32.08	71.53	24.53	25.64	13	520	BDL

Date of Sampling	Location Code: AAQ1 Location Name: Near STP Colony-Air Site Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
23/05/2025	34.95	73.4	24.81	26.11	13.2	524	BDL
27/05/2025	31.72	60.64	21.89	23.52	11.42	498	BDL
30/05/2025	33.69	68.6	23.84	24.46	11.6	502	BDL
03/06/2025	32	69.5	22.8	18.81	11.4	497	BDL
06/06/2025	30	68.2	21.33	21.87	10.9	470	BDL
10/06/2025	33.4	68.9	23.47	19.28	10.8	450	BDL
13/06/2025	28.97	67.42	22.14	20.7	10.5	491	BDL
17/06/2025	29.25	66.49	22.01	23.76	10.3	506	BDL
20/06/2025	30.26	68.2	22.7	24.7	10.6	513	BDL
24/06/2025	31.5	66.1	23.03	25.17	10.9	514	BDL
27/06/2025	32.14	67.22	23.38	25.4	11.2	508	BDL
01/07/2025	31.53	66.46	22.56	24.23	11.6	513	BDL
04/07/2025	32.25	67.8	23.03	24.7	11.5	514	BDL
08/07/2025	33.57	69.15	23.51	25.4	11.8	517.00	BDL
10/07/2025	32.24	68	23.11	25.17	12	525	BDL
15/07/2025	34.13	71.56	23.8	26.11	12.3	519	BDL
18/07/2025	33.55	69.8	23.59	25.87	12.5	526	BDL
22/07/2025	32.85	68.43	23.03	25.4	12.6	531	BDL
25/07/2025	33.74	70.5	22.5	24.93	12.8	536	BDL
29/07/2025	32.28	68.91	23.22	25.64	12.4	520	BDL
01/08/2025	31.18	67.44	22.77	25.17	12.2	525	BDL
05/08/2025	32.5	69.1	23.57	25.4	12.5	532	BDL
08/08/2025	33.35	70.5	23.18	24.93	12.3	529.00	BDL
12/08/2025	34.16	71.36	22.85	24.46	12.5	535	BDL
14/08/2025	32.85	69.74	23.38	24.93	12.7	538	BDL
19/08/2025	32.22	68.89	23.79	25.4	12.4	532	BDL
22/08/2025	30.79	65.3	23.28	24.93	12.2	526	BDL
26/08/2025	32.32	68.76	23.51	25.17	12.4	524	BDL
29/08/2025	31.43	66.25	24.09	25.64	11.9	531	BDL
02/09/2025	32.85	68.9	23.71	24.93	11.5	527	BDL
05/09/2025	32.21	67.49	24.11	25.4	11.8	521	BDL
09/09/2025	30.8	68.7	23.36	25.17	12.2	533.00	BDL
12/09/2025	31.59	70.6	24.17	25.87	12.4	527	BDL
15/09/2025	32.5	69.89	24	25.4	12.8	520	BDL
19/09/2025	34.59	72.4	23.18	24.46	12.2	501	BDL
23/09/2025	33.26	70.22	23.92	25.17	12.5	514	BDL
26/09/2025	35	71.8	24.27	25.64	12.9	528	BDL
30/09/2025	36.2	73.63	24.57	25.87	12.6	517	BDL
Minimum	**28.97**	**60.64**	**18.78**	**18.58**	**10.3**	**450**	**BDL**
Maximum	**36.87**	**78.91**	**24.81**	**26.81**	**14.1**	**538**	**BDL**
Average	**32.93**	**70.31**	**23.25**	**24.76**	**12.21**	**517.91**	**BDL**
98%le	**36.57**	**78.33**	**24.57**	**26.58**	**13.80**	**535.96**	**BDL**
NAAQ Standards for 24 Time weighted Average	60	100	80	80	100 (8hrs TWA)	2000	--

TABLE – 3.2
AMBIENT AIR QUALITY DATA AT Near AMU Behind T4

Date of Sampling	Location Code: AAQ2						
	Location Name: Near AMU Behind T4-Air Site						
	Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
01/04/2025	32.85	61.19	22.5	25.27	12.4	502	BDL
04/04/2025	29.89	56.6	22.88	26.09	12.9	504	BDL
08/04/2025	31.05	59.77	23.48	25.27	12.4	505	BDL
11/04/2025	32.32	61.08	23.1	24.44	12.8	508	BDL
15/04/2025	31.25	59.9	24	25.27	13.1	504	BDL
18/04/2025	33.57	63.25	24.3	25.82	12.8	508	BDL
22/04/2025	31.25	62.49	23.25	25.27	13.2	504	BDL
25/04/2025	32.49	64.26	23.78	25.82	13.4	506	BDL
29/04/2025	31.04	62.85	22.95	24.99	13.8	512	BDL
02/05/2025	29.84	59.1	22.11	24.38	13.4	501	BDL
06/05/2025	32.24	63.34	23.06	25.29	13.7	502	BDL
09/05/2025	31.03	61.16	22.26	24.61	13.1	513	BDL
13/05/2025	33.59	64.7	22.7	25.52	12.5	515	BDL
16/05/2025	35.41	66.2	23.85	26.2	12.8	517	BDL
20/05/2025	34.74	64.98	23.48	25.97	13.2	528	BDL
23/05/2025	35.59	66.3	24.12	26.43	13.6	523	BDL
27/05/2025	37.1	68.15	24.69	27.11	13.4	519	BDL
30/05/2025	36.45	67.74	24.38	26.43	13.8	522	BDL
03/06/2025	34.89	64.26	23.69	25.75	13.4	517	BDL
06/06/2025	36.23	65.89	24.84	26.43	13.8	520	BDL
10/06/2025	37.74	67.26	24.1	26.2	14.2	515	BDL
13/06/2025	35.89	64.6	24.79	26.66	14.7	507	BDL
17/06/2025	34.11	61.89	21.95	25.75	14.7	508	BDL
20/06/2025	35.48	64.26	22.52	25.29	14.3	502	BDL
24/06/2025	34.65	63.33	21.74	24.84	14.5	506	BDL
27/06/2025	36.12	65.6	22.31	25.52	14.6	500	BDL
01/07/2025	28.36	63.88	22.02	23.52	11.5	523	BDL
04/07/2025	28.89	64.53	22.49	23.99	11.9	515	BDL
08/07/2025	29.63	65.36	22.97	24.7	12.1	508.00	BDL
10/07/2025	26.5	62.6	22.02	24.23	12.3	513	BDL
15/07/2025	28	64.44	22.85	24.93	12	508	BDL
18/07/2025	29.26	65	22.36	24.46	11.8	503	BDL
22/07/2025	28.53	63.66	21.95	23.99	12.2	509	BDL
25/07/2025	30.21	64.9	21.55	23.05	12.5	516	BDL
29/07/2025	28.79	62.24	22.28	23.99	12.5	516	BDL
01/08/2025	27.86	61.14	21.75	22.81	12.3	520	BDL
05/08/2025	28.7	63.26	22.49	23.99	12.6	517	BDL
08/08/2025	29.3	64.79	22.09	23.52	12.4	514.00	BDL
12/08/2025	30.59	66.2	21.75	23.05	12.1	520	BDL
14/08/2025	29.46	64.22	22.29	23.76	12.4	514	BDL
19/08/2025	28.12	62.4	22.83	24.23	12.2	517	BDL
22/08/2025	26.36	60.22	22.2	22.81	12.5	510	BDL
26/08/2025	27.91	62.41	22.56	23.76	12.1	515	BDL

Date of Sampling	Location Code: AAQ2 Location Name: Near AMU Behind T4-Air Site Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
29/08/2025	26.25	61.2	22.2	24.46	11.7	508	BDL
02/09/2025	27.1	61.85	22.76	23.99	11.3	504	BDL
05/09/2025	26.52	60.4	23.09	24.23	11.4	511	BDL
09/09/2025	25.46	61.7	22.28	23.99	11.7	501.00	BDL
12/09/2025	26.8	62.29	22.95	24.46	11.3	504	BDL
15/09/2025	26.74	63.56	22.64	23.99	12.2	512	BDL
19/09/2025	28.92	65	22.16	23.52	12.6	507	BDL
23/09/2025	30.4	66.86	22.7	24.23	12.4	502	BDL
26/09/2025	31.59	68.13	23.32	24.7	12	507	BDL
30/09/2025	30.94	66.29	22.68	24.23	12.3	513	BDL
Minimum	25.46	56.6	21.55	22.81	11.3	500	BDL
Maximum	37.74	68.15	24.84	27.11	14.7	528	BDL
Average	31.02	63.56	22.87	24.78	12.77	510.85	BDL
98%le	37.07	68.11	24.79	26.65	14.70	523.00	BDL
NAAQ Standards for 24 Time weighted Average	60	100	80	80	100 (8hrs TWA)	2000	--

TABLE-3.3
AMBIENT AIR QUALITY DATA MEGHANI NAGAR

Date of Sampling	Location Code: AAQ3 Location Name: Near MEGHANI NAGAR Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
01/04/2025	27.16	57.49	13.8	16.2	10.7	457	BDL
04/04/2025	25.13	54.84	14.95	16.48	11.2	461	BDL
08/04/2025	26.04	55.63	15.65	17.03	11.5	465	BDL
11/04/2025	25.46	54.54	15.05	16.2	11.7	462	BDL
15/04/2025	24.2	52.13	14.25	17.3	11.4	458	BDL
18/04/2025	25.6	54.59	13.65	16.48	11.1	451	BDL
22/04/2025	23.89	51.18	13.12	15.38	11.6	457	BDL
25/04/2025	25.14	53.49	14.21	16.2	11.8	452	BDL
29/04/2025	26.23	55.07	13.35	15.65	12.2	456	BDL
02/05/2025	24.46	52.2	12.74	15.04	11.5	449	BDL
06/05/2025	25.79	53.47	12.41	15.95	11.2	443	BDL
09/05/2025	27.05	56.12	13.24	16.4	11.7	448	BDL
13/05/2025	23.24	51.41	14.74	17.54	11.4	452	BDL
16/05/2025	27.46	57.31	13.61	15.93	12.2	447	BDL
20/05/2025	23.76	53.89	14.4	17.09	11.8	456	BDL
23/05/2025	25.32	55.24	13.78	16.63	12.1	453	BDL
27/05/2025	26.49	56.88	14.36	17.32	12.5	458	BDL
30/05/2025	27.88	58.21	14.97	18	12.8	455	BDL
03/06/2025	25	55.49	13.64	16.86	12.4	447	BDL

Date of Sampling	Location Code: AAQ3						
	Location Name: Near MEGHANI NAGAR						
	Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
06/06/2025	25.86	57	14.79	17.54	12.7	451	BDL
10/06/2025	26.35	58.84	15.69	18.23	12.5	447	BDL
13/06/2025	27.69	59.72	16.43	18	12.7	450	BDL
17/06/2025	26.52	57.43	15.58	18.23	13.1	452	BDL
20/06/2025	27.98	59.05	15.01	17.54	13.4	456	BDL
24/06/2025	27.08	57.76	15.49	18	13.7	460	BDL
27/06/2025	28.35	60.22	14.78	17.32	13.4	458	BDL
01/07/2025	24.1	56.33	13.18	15.29	10.4	455	BDL
04/07/2025	24.79	57.1	13.55	15.76	10.7	458	BDL
08/07/2025	25.36	57.94	14.41	16.46	10.5	451.00	BDL
10/07/2025	23.79	55.2	14.14	15.76	10.1	454	BDL
15/07/2025	24.7	56.13	13.68	15.29	10.4	450	BDL
18/07/2025	25.19	55.36	14.32	15.52	10.2	458	BDL
22/07/2025	23.91	54	14.63	15.99	10.5	462	BDL
25/07/2025	24.85	56.85	13.77	15.05	10.7	460	BDL
29/07/2025	23.59	55.49	13.23	14.82	10.8	457	BDL
01/08/2025	24.11	56.7	12.78	15.76	10.6	461	BDL
05/08/2025	23.63	56.12	13.23	16.7	10.8	465	BDL
08/08/2025	24.22	56.69	13.5	16.93	10.5	454.00	BDL
12/08/2025	25.36	57.9	13.95	17.17	10.8	458	BDL
14/08/2025	24.59	55.36	14.41	17.4	10.4	464	BDL
19/08/2025	23.82	54.1	14.95	17.64	10.4	457	BDL
22/08/2025	22.49	52.76	14.13	16.93	10.7	452	BDL
26/08/2025	24.1	55.26	13.73	16.23	10.5	457	BDL
29/08/2025	22.94	53.5	14.13	16.46	10.2	454	BDL
02/09/2025	23.56	55.86	14.5	16.93	10.3	457	BDL
05/09/2025	22.6	54.69	15.04	17.4	10.6	460	BDL
09/09/2025	24.5	56.29	13.77	16.7	10.7	463.00	BDL
12/09/2025	25	57.9	15.12	18.82	10.2	460	BDL
15/09/2025	22.09	57.18	13.36	16.93	11.2	462	BDL
19/09/2025	24.56	58.8	14.23	17.88	11.6	468	BDL
23/09/2025	25.31	59.33	13.86	16.7	11.8	465	BDL
26/09/2025	23.89	57.94	14.45	17.64	11.5	470	BDL
30/09/2025	25.53	59	14.04	16.46	11.2	465	BDL
Minimum	**22.09**	**51.18**	**12.41**	**14.82**	**10.1**	**443**	BDL
Maximum	**28.35**	**60.22**	**16.43**	**18.82**	**13.7**	**470**	**BDL**
Average	**25.05**	**56.02**	**14.18**	**16.70**	**11.37**	**456.57**	**BDL**
98%le	**27.98**	**59.70**	**15.69**	**18.23**	**13.40**	**467.88**	**BDL**
NAAQ Standards for 24 Time weighted Average	60	100	80	80	100 (8hrs TWA)	2000	--

TABLE-3.4
AMBIENT AIR QUALITY DATA AT NOBEL NAGAR

Date of Sampling	Location Code: AAQ4						
	Location Name: Near NOBEL NAGAR						
	Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
01/04/2025	24.32	51.11	12.6	14.83	10.2	441	BDL
04/04/2025	25.89	52.36	13.61	15.65	10.9	443	BDL
08/04/2025	23.26	50.55	12.94	14.83	10.9	446	BDL
11/04/2025	22.04	48.25	13.41	15.38	11.2	449	BDL
15/04/2025	23.32	51.46	13.8	16.48	11.5	453	BDL
18/04/2025	22.74	50.42	13.25	15.04	11.2	439	BDL
22/04/2025	22.78	50.43	12.22	14.56	12.2	453	BDL
25/04/2025	21.04	47.71	12.86	15.11	12.5	459	BDL
29/04/2025	22.19	49.26	12	13.73	11.8	448	BDL
02/05/2025	21.31	46.71	11.42	12.99	11.4	443	BDL
06/05/2025	22.04	48.24	11.97	13.67	11.6	448	BDL
09/05/2025	23.56	50.27	12.8	14.35	11.2	452	BDL
13/05/2025	24.05	52.1	13.53	15.27	11.3	448	BDL
16/05/2025	25.36	54.24	14.02	15.95	11.5	443	BDL
20/05/2025	22.74	50.42	13.25	15.04	11.2	439	BDL
23/05/2025	22.09	48.7	14.07	15.95	11.5	443	BDL
27/05/2025	22.46	50.08	13.21	15.27	11.2	448	BDL
30/05/2025	23.79	52.14	14.12	15.95	11.6	452	BDL
03/06/2025	21.1	47.74	13.06	15.04	11.2	445	BDL
06/06/2025	22.86	48.83	13.93	15.72	11.1	451	BDL
10/06/2025	24.04	51.3	14.54	16.4	11.5	454	BDL
13/06/2025	25.34	52.63	13.6	15.95	11.7	457	BDL
17/06/2025	23.95	51.08	13.03	15.27	11.4	452	BDL
20/06/2025	24.5	53.66	13.88	15.72	11.8	455	BDL
24/06/2025	23.84	52.13	14.5	16.18	11.5	458	BDL
27/06/2025	25.08	53.89	13.93	15.72	11.3	454	BDL
01/07/2025	23.3	51.08	12.91	14.82	10.8	451	BDL
04/07/2025	23.62	52.2	12.46	14.35	11	454	BDL
08/07/2025	24.23	53.11	12.91	14.82	11.2	461.00	BDL
10/07/2025	22.1	50.88	13.32	14.58	11.1	458	BDL
15/07/2025	22.89	52.13	12.72	14.11	11.3	462	BDL
18/07/2025	23.23	53.22	13.5	14.58	11.2	458	BDL
22/07/2025	21.85	51.63	13.28	14.35	11.3	460	BDL
25/07/2025	22.36	52.4	13.09	13.64	11.1	456	BDL
29/07/2025	21.05	50.62	12.29	13.41	11.2	451	BDL
01/08/2025	21.94	49.8	11.96	13.88	11.5	457	BDL
05/08/2025	22.23	51.26	12.46	14.35	11.7	451	BDL
08/08/2025	22.84	52.1	12.95	14.82	11.4	448.00	BDL
12/08/2025	23.6	53.58	13.41	15.29	11.1	451	BDL
14/08/2025	22.97	52.1	13.59	15.76	11.3	453	BDL
19/08/2025	21.76	50.98	13.86	16.46	11	448	BDL
22/08/2025	21.05	48.52	13.19	15.99	10.8	441	BDL

Date of Sampling	Location Code: AAQ4 Location Name: Near NOBEL NAGAR Results(µg/m3)						
	$PM_{2.5}$	PM_{10}	SO_2	NO_2	Ozone	CO	HC
26/08/2025	21.79	50.14	12.64	15.29	10.5	445	BDL
29/08/2025	20.44	48.7	13.32	15.76	10.4	448	BDL
02/09/2025	20.44	48.7	13.32	15.76	10.4	448	BDL
05/09/2025	21.67	49.86	13.82	16.23	10.6	452	BDL
09/09/2025	22.3	52.4	14.83	15.52	10.2	455.00	BDL
12/09/2025	23.18	53.5	13.91	16.23	10.8	448	BDL
15/09/2025	21.22	50.94	14.45	17.4	10.4	447	BDL
19/09/2025	23.17	53.8	15.05	18.35	10.7	451	BDL
23/09/2025	23.9	51	14.41	18.11	10.4	459	BDL
26/09/2025	24.39	53.24	15	18.58	10.6	463	BDL
30/09/2025	23.02	54.58	14.72	17.88	10.9	449	BDL
Minimum	**20.44**	**46.71**	**11.42**	**12.99**	**10.2**	**439**	BDL
Maximum	**25.89**	**54.58**	**15.05**	**18.58**	**12.5**	**463**	**BDL**
Average	**22.87**	**51.10**	**13.38**	**15.40**	**11.16**	**450.91**	**BDL**
98%le	**25.36**	**54.23**	**14.99**	**18.34**	**12.18**	**461.96**	**BDL**
NAAQ Standards for 24 Time weighted Average	60	100	80	80	100 (8hrs TWA)	2000	--

TABLE-3.5
SUMMARY OF AMBIENT AIR QUALITY RESULTS

Station Code	Name of the Station	Parameters (µg/m³)															
		PM_{10}				$PM_{2.5}$				SO_2				NO_2			
		Min	Max	Avg	98th %	Min	Max	Avg	98th %	Min	Max	Avg	98th %	Min	Max	Avg	98th %
AAQ1	STP COLONY	60.64	78.91	70.31	78.33	28.97	36.87	32.93	36.57	18.78	24.81	23.25	24.57	18.58	26.81	24.76	26.58
AAQ2	AMU Behnd T4	56.60	68.15	63.56	68.11	25.46	37.74	31.02	37.07	21.55	24.84	22.87	24.79	22.81	27.11	24.78	26.65
AAQ3	Megani Nagar	51.18	60.22	56.02	59.70	22.09	28.35	25.05	27.98	12.41	16.43	14.18	15.69	14.82	18.82	16.70	18.23
AAQ4	Nobel Nagar	46.71	54.58	51.10	54.23	20.44	25.89	22.87	25.36	11.42	15.05	13.38	14.99	12.99	18.58	15.40	18.34
Range		46.71-78.91				20.44-37.74				11.42-24.84				12.99-27.11			
NAAQ Standards		100				60				80				80			

Station Code	Name of the Station	Parameters (µg/m³)											
		Ozone				CO				HC			
		Min	Max	Avg	98th %	Min	Max	Avg	98th %	Min	Max	Avg	98th %
AAQ1	STP COLONY	10.3	14.1	12.21	13.80	450	538	517.91	535.96	BDL	BDL	BDL	BDL
AAQ2	AMU Behnd T4	11.3	14.7	12.77	14.70	500	528	510.85	523	BDL	BDL	BDL	BDL
AAQ3	Megani Nagar	10.1	13.7	11.37	13.40	443	470	456.57	467.57	BDL	BDL	BDL	BDL
AAQ4	Nobel Nagar	10.2	12.5	11.16	12.18	439	463	450.91	461.96	BDL	BDL	BDL	BDL
Range		10.1-14.7				439-538				BDL			
NAAQ Standards		100				2000				--			

Conclusion:

The sampling is done in four locations for a sampling period of 24 hours.The observed PM2.5, PM10, SO2, NO2, O3 and CO were found to be well within the prescribed limits of Central Pollution Control Board (CPCB) for industrial and mixed uses

TABLE-3.6
RESULTS OF NAAQ PARAMETERS

Sr.No	Name of the Location	Date of Monitoring	NH_3 (µg/m³)	C_6H_6 (µg/m³)	B(a)P (ng/m³)	Metals		
						Arsenic (ng/m³)	Nickle (ng/m³)	Lead (µg/m³)
01	STP COLONY	23/03/2025	<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
02	AMU Behnd T4		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
03	Megani Nagar		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
04	Nobel Nagar		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
NAAQ Standard.			400	5.0 (Annual)	1.0 (Annual)	6.0 (Annual)	<20.0	1.0

Sr.No	Name of the Location	Date of Monitoring	NH_3 (µg/m³)	C_6H_6 (µg/m³)	B(a)P (ng/m³)	Metals		
						Arsenic (ng/m³)	Nickle (ng/m³)	Lead (µg/m³)
01	STP COLONY	14/09/2025	<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
02	AMU Behnd T4		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
03	Megani Nagar		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
04	Nobel Nagar		<5.0	<0.001	<0.1	<0.1	<1.0	<0.1
NAAQ Standard.			400	5.0 (Annual)	1.0 (Annual)	6.0 (Annual)	<20.0	1.0

3.3 Flight Path Area Noise Levels Monitoring

We have Installed Sound Level meters in 3 designated locations to measure the Noise continuously for 7 days in each locations to monitor the noise at nearest habitation about 250 and 500 meter respectively from the airport compound wall in either sides of Runway to know the impact of Aeroplane take off and landing activities. And the Monitoring Results are presented in **Table No-3.7 to Table No-3.9**

TABLE-3.7

FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT MEGANI NAGAR

Location Code	FPN-1			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'45.92"N 72°37'5.57"E			
Distance from Airport compound wall in meters→	65			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day 01:- 01st March 2025	50.1	42.6	46.4	65 dB
Day02:- 03rd March 2025	52.4	42.2	47.3	
Day03:- 04th March 2025	55.1	47.2	51.2	
Day04:- 06th March 2025	53.7	42.8	48.3	
Day05:- 07th March 2025	50.8	44.1	47.5	
Day06:- 08th March 2025	52.3	43.6	48.0	
Day07:- 10th March 2025	53.2	44.8	49.0	

Description of the Location:

Flight Path Noise monitoringlocation is selected on the basis of the area which comes under the path of Flight Movement during take off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 65 meters and Area is likely comes under commercial Zone.

Location Code	FPN-1			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'45.92"N 72°37'5.57"E			
Distance from Airport compound wall in meters→	65			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day 01:- 02nd September 2025	47.7	42.5	45.1	65 dB
Day02:- 03rd September 2025	48.1	43.5	45.8	
Day03:- 05th September 2025	55.7	46.8	51.2	
Day04:- 06th September 2025	52.1	45.5	48.8	
Day05:- 09th September 2025	56.3	47.5	51.9	
Day06:- 10th September 2025	53.2	43.8	48.5	
Day07:- 12th September 2025	49.7	41.5	45.6	

Description of the Location:

Flight Path Noise monitoringlocation is selected on the basis of the area which comes under the path of Flight Movement during take off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 65 meters and Area is likely comes under commercial Zone.

TABLE-3.8

FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT MEGANI NAGAR

Location Code	FPN -2			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'37.25"N 72°36'56.87"E			
Distance from Airport Compound Wall in meters→	430			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 11th March 2025	52.4	43.8	48.1	65 dB
Day02:- 12th March 2025	50.1	42.3	46.2	
Day03:- 13th March 2025	51.7	43.2	47.5	
Day04:- 15th March 2025	55.2	45.1	50.2	
Day05:- 17th March 2025	53.3	43.8	48.6	
Day06:- 18th March 2025	54.2	43.2	48.7	
Day07:- 19th March 2025	54.4	44.5	49.5	

Description of the Location:

Flight Path Noise monitoringlocation is selected on the basis of the area which comes under the path of Flight Movement during take off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 430 meters. And the area is likely comes under commercial Zone.

Location Code	FPN -2			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'37.25"N 72°36'56.87"E			
Distance from Airport Compound Wall in meters→	430			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 13th September 2025	53.6	44.7	49.2	65 dB
Day02:- 14th September 2025	50.1	43.5	46.8	
Day03:- 15th September 2025	54.4	46.8	50.6	
Day04:- 17th September 2025	52.1	43.4	47.8	
Day05:- 18th September 2025	55.8	46.2	51.0	
Day06:- 19th September 2025	51.4	43.1	47.2	
Day07:- 20th September 2025	54.3	44.7	49.5	

Description of the Location:

Flight Path Noise monitoringlocation is selected on the basis of the area which comes under the path of Flight Movement during take off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 430 meters. And the area is likely comes under commercial Zone.

TABLE-3.9

FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT NANDIGRAM SOCIETY

Location Code	FPN -3			
Name of the Location→	Nandigram Society			
GPS Coordinates	23° 5'44.34"N 72°39'16.41"E			
Distance from Airport Compound Wall in meters→	660			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 20th March 2025	55.2	45.3	50.3	65 dB
Day02:- 21th March 2025	53.3	42.8	48.1	
Day03:- 23th March 2025	52.1	43.3	47.7	
Day04:- 25th March 2025	51.8	42.8	47.3	
Day05:- 26th March 2025	52.6	43.2	47.9	
Day06:- 28th March 2025	53.8	44.7	49.3	
Day07:- 31th March 2025	54.7	44.3	49.5	

Description of the Location:

Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight movement during take off and landing. And this particular location is situated the North side of Airport compound Wall at a distance of 660 meters. And the area is likely comes under commercial Zone.

Location Code	FPN -3			
Name of the Location→	Nandigram Society			
GPS Coordinates	23° 5'44.34"N 72°39'16.41"E			
Distance from Airport Compound Wall in meters→	660			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 22th September 2025	53.3	44.1	48.7	65 dB
Day02:- 23th September 2025	49.8	42.5	46.2	
Day03:- 24th September 2025	50.3	43.8	47.1	
Day04:- 26th September 2025	48.7	41.3	45.0	
Day05:- 27th September 2025	52.8	46.4	49.6	
Day06:- 29th September 2025	53.5	45.7	49.6	
Day07:- 30th September 2025	50.8	43.6	47.2	

Description of the Location:

Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight movement during take off and landing. And this particular location is situated the North side of Airport compound Wall at a distance of 660 meters. And the area is likely comes under commercial Zone.

Annexure B4 45

Annexure B4 45

NOISE DATA ANALYSIS

Half Yearly Environmental monitoring during the month of **April 2025 to Sep 2025** consisted of collection and analysis of samples of various environmental attributes like

1. Ambient Noise Level Monitoring.
2. Flight path noise monitoring
3. Noise mapping and zone study as per G.S.R. 568(E) dated 18.06.2018

1. Ambient Noise Levels

Noise levels were measured in 4 locations at in that 2 locations are within Airport Premises and 2 Locations are outside of the Airport for 24 hours on a monthly basis and the measured noise levels in day time and night time from **April 2025 – Sep 2025** are given below in **Table-1**

TABLE-1
AMBIENT NOISE LEVEL MONITORING RESULTS

Sr. No.	Name of Locations	Noise Standards		April-25		May-25		June-25		July-25		Aug-25		Sep-25	
		Day	Night	L-Day	L-Night	L-Day	L-Night	L-Day	L-Night	L-Day	L-Night	L-Day	L-Night	L-Day	L-Night
1	T1 Arrival	70	65	67	58	66	58	66	57	68	54	66	52	68	54
2	Meghani Nagar	65	55	62	49	60	49	61	49	63	53	64	51	62	53
3	Nobel Nager	55	45	53	41	53	42	54	41	54	42	52	44	53	43
4	Airport Colony	55	45	51	42	50	40	52	42	51	41	53	42	54	41

Noise monitoring summery for ambient air Noise monitoring program

Location	GPCB Norms dB(A)	Noise Level in Day Time (dB(A)					
		April-25	May-25	June-25	July-25	Aug-25	Sep-25
T1 Arrival	Noise Standards for Airport Zone (70)	67	66	66	68	66	68
Meghni nagar	Noise Standards for Commercial Zone(65)	62	60	61	63	64	62
Nobel nagar	Noise Standards for Residential Zone (55)	53	53	54	54	52	53
Airport colony	Noise Standards for Residential Zone (55)	51	50	52	51	53	54
Minimum		51	50	52	51	52	53
Maximum		67	66	66	68	66	68
Half Yearly average		58.25	57.25	58.25	59	58.75	59.25

Location	GPCB Norms dB(A)	Noise Level in nighttime dB(A)					
		April-25	May-25	June-25	July-25	Aug-25	Sep-25
T1 Arrival	Noise Standards for Airport Zone (65)	58	58	57	54	52	54
Meghni nagar	Noise Standards for Commercial Zone (55)	49	49	49	53	51	53
Nobel nagar	Noise Standards for Residential Zone (45)	41	42	41	42	44	43
Airport colony	Noise Standards for Residential Zone (45)	42	40	42	41	42	41
Minimum		41	40	41	41	42	41
Maximum		58	58	57	54	52	54
Half Yearly average		47.5	47.25	47.25	47.5	47.25	47.75

Conclusion:

The sampling is done in four locations for a sampling period of 24 hours. The observed L-Day; and L-Night Monitored Values were found to be well within the prescribed limits of Latest Notification on 18th June 2018- GSR 568(E).



CNMT (Continuous Noise Monitoring Terminal) Installed towards Runway 23

2.Flight Path Area Noise Levels Monitoring

We have Installed Sound Level meters in 3 designated locations to measure the Noise continuously for 7 days in each location to monitor the noise at nearest habitation about 250 and 500 meters respectively from the airport compound wall in either side of Runway to know the impact of Aeroplan takeoff and landing activities. And the Monitoring Results are presented in **Table No-2.1 to Table No-2.3**

TABLE-2.1

FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT MEGANI NAGAR

Location Code	FPN-1			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'45.92"N 72°37'5.57"E			
Distance from Airport compound wall in meters→	65			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day 01:- 03rd June 2025	48.7	43.1	45.9	65 dB
Day02:- 04th June 2025	47.2	41.8	44.5	
Day03:- 05th June 2025	48.1	43.6	45.9	
Day04:- 06th June 2025	54.3	46.7	50.5	
Day05:- 08th June 2025	55.6	47.1	51.4	
Day06:- 10th June 2025	50.1	42.7	46.4	
Day07:- 11th June 2025	52.4	43.5	48.0	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight Movement during take-off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 65 meters and Area likely has comes under commercial Zone.

Location Code	FPN-1			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'45.92"N 72°37'5.57"E			
Distance from Airport compound wall in meters→	65			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day01:- 13th June 2025	48.3	42.1	45.2	65 dB
Day02:- 14th June 2025	51.5	44.5	48.0	
Day03:- 15th June 2025	49.6	42.7	46.2	
Day04:- 16th June 2025	54.2	44.1	49.2	
Day05:- 17th June 2025	50.1	42.3	46.2	

Day06:- 18th June 2025	52.8	45.2	49.0	
Day07:- 20th June 2025	53.5	45.8	49.7	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight Movement during take-off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 65 meters and Area has likely come under commercial Zone..

TABLE-2.2
FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT MEGANI NAGAR

Location Code	FPN -2			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'37.25"N 72°36'56.87"E			
Distance from Airport Compound Wall in meters→	430			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day01:- 21th June 2025	52.1	43.8	48.0	65 dB
Day02:- 24th June 2025	51.3	42.1	46.7	
Day03:- 25th June 2025	48.7	41.5	45.1	
Day04:- 25th June 2025	53.6	44.7	49.2	
Day05:- 27th June 2025	54.2	45.3	49.8	
Day06:- 28th June 2025	52.4	43.6	48.0	
Day07:- 30th June 2025	51.8	42.7	47.3	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight Movement during take-off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 430 meters. And the area has likely come under commercial Zone.

Location Code	FPN -2			
Name of the Location→	Megani Nagar			
GPS Coordinates	23° 3'37.25"N 72°36'56.87"E			
Distance from Airport Compound Wall in meters→	430			
	Results-d(B)A			
Date of Monitoring	**L-Day**	**L-night**	**L-equivalent**	**Limit**
Day 01:- 02nd September 2025	47.7	42.5	45.1	65 dB
Day02:- 03rd September 2025	48.1	43.5	45.8	
Day03:- 05th September 2025	55.7	46.8	51.2	

Day04:- 06th September 2025	52.1	45.5	48.8	
Day05:- 09th September 2025	56.3	47.5	51.9	
Day06:- 10th September 2025	53.2	43.8	48.5	
Day07:- 12th September 2025	49.7	41.5	45.6	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight Movement during take-off and landing. And this particular location is situated the south side of Airport Compound Wall at a distance of 430 meters. And the area has likely come under commercial Zone..

TABLE-2.3
FLIGHT PATH AREA NOISE LEVEL MONITORING RESULTS AT NANDIGRAM SOCIETY

Location Code	FPN -3			
Name of the Location→	Nandigram Society			
GPS Coordinates	23° 5'44.34"N 72°39'16.41"E			
Distance from Airport Compound Wall in meters→	660			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 13th September 2025	53.6	44.7	49.2	65 dB
Day02:- 14th September 2025	50.1	43.5	46.8	
Day03:- 15th September 2025	54.4	46.8	50.6	
Day04:- 17th September 2025	52.1	43.4	47.8	
Day05:- 18th September 2025	55.8	46.2	51.0	
Day06:- 19th September 2025	51.4	43.1	47.2	
Day07:- 20th September 2025	54.3	44.7	49.5	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight movement during take-off and landing. And this particular location is situated on the North side of Airport compound Wall at a distance of 660 meters. And the area has likely come under commercial Zone.

Location Code	FPN -3			
Name of the Location→	Nandigram Society			
GPS Coordinates	23° 5'44.34"N 72°39'16.41"E			
Distance from Airport Compound Wall in meters→	660			
	Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent	Limit
Day01:- 22th September 2025	53.3	44.1	48.7	65 dB
Day02:- 23th September 2025	49.8	42.5	46.2	
Day03:- 24th September 2025	50.3	43.8	47.1	

Day04:- 26th September 2025	48.7	41.3	45.0	
Day05:- 27th September 2025	52.8	46.4	49.6	
Day06:- 29th September 2025	53.5	45.7	49.6	
Day07:- 30th September 2025	50.8	43.6	47.2	

Description of the Location:
Flight Path Noise monitoring location is selected on the basis of the area which comes under the path of Flight movement during take-off and landing. And this particular location is situated on the North side of Airport compound Wall at a distance of 660 meters. And the area has likely come under commercial Zone.

NOISE MONITORING, MAPPING & ZONE STUDY CONDUCTED DURING- Dec 2024 as per GSR 568

Ahmedabad International Airport Limited (AIAL) Noise mapping and noise zone Study

Objective: Conduct a noise mapping and noise zone study at Ahmedabad International Airport as per GSR 568 (E) of MOEF&CC and submission of the report to DGCA

Data Processing and analysis: Utilized flight plan data for CY 2024, meteorological data, airport layout, and noise monitoring instruments meeting Class 1 standards (IEC 61672-1) for 7 days monitoring program in Dec 2024 and M/s. Anotec has used their software to create noise counters showing Lday and Lnight.

Noise Monitoring: Conducted at runway ends 05 and 23, including ADSB monitoring and flight track data.

Noise Mapping: Carried out in accordance with DGCA CAR section 10, CPCB, and MoEF gazette notification G.S.R. 568(E) dated 18.06.2018.

Noise zone maps (results & validation):

- Lday (average sound level from 0600-2200 hrs) and 62 dBA noise counter created
- Lnight (average sound level from 2200-0600 hrs). 57 dBA noise counter created

Applicable Limits for airport Category	Limits in Leq (dB(A))	
	Day Time*	Night time**
Airport Zone (busy airport)	70	65

Noise Lmax values : Along with Noise zone, Noise Lmax values were calculated for Ahmedabad International Airport, showing Lmax values at two locations.

Location point	City / Village	L_{Amax}, dB	Coordinates	
			Latitude	Longitude
AMD_LAMAX_1	Ghanshyam Nagar	119.4	23°03'45.27"N	72°37'07.95"E
AMD_LAMAX_2	Ambica Nagar	111.9	23°05'46.71"N	72°39'17.62"E

Boundary Noise Levels: As per CPCB noise rules, Airport is considered as a industrial zone, the noise limits for industrial zone are still applicable, therefore boundary Noise levels of Ahmedabad airport was derived in dB A

	L_{day}	L_{night}
Boundary	64.9	63.4
Limit	75	70
Margin	10.1	6.6

Conclusion:

This study is as per the requirement of G.S.R. 568(E) dated 18.06.2018, The noise maps and noise zone of Ahmedabad airport are developed and presented to the Airport operations management. The soft copy of report has to be submitted to DGCA for approval. Once approval is received from DGCA, We shall publish the approved noise zone maps in our web site and also inform to the local building plan approval authority.

***

(Annexure B9.71)

Annexure B(X) 9.71

Cost of Environmental Protection Measures of AIAL, Ahmedabad

Activity	Cost incurred (INR in Lacs)
Cost incurred for Legal & Statutory Expenses, Environment Monitoring Services, Hazardous / Non-Hazardous Waste Management & Disposal, Environment event Celebration, Horticulture Expenses, O&M of Sewage Treatment Plant, wildlife control and biodiversity initiative cost, fire and safety management and sustainability initiatives etc.	April 25 to Sep 25- **Total: ~ 2267 Lakh for the monitoring period**

Cost of Environmental Protection Measures of AIAL, Ahmedabad (FY 2025-26) April to Sep 2025

Cost of Environmental Protection	OPEX/CAPEX (INR)
Environmental Operations (Envi. monitoring/legal fees)	1,644,941
Horticulture /greenbelt development and maintenance cost	11560444.87
Wildlife and biodiversity initiative and management	45,514,451
Fire and safety protection and operations	10,886,399
Waste water management: STP operations	800,000
IMS and Five S implementation	725,000
Other Sustainability projects /energy efficacy improvement	
Upgradation of Chiller, LED Lights, Replacement of Air Conditioning System, STP pipeline network, AHU system, Digitalization	26,470,675
EV vehicle purchase- 3 Number	75,000,000
Refurbishment of 700 KLD MBR based STP	10700000
Installation Noise Monitoring Terminal as per DGCA	2720078
Noise Monitoring Terminal as per DGCA Study	1806147.2
Rainwater Harvesting Work, Land Side (Strorm Water)	38910740.27
Cost of Environmental Protection Measures (FY 2025-26)	
(In lakh)	**2,267**

***

Annexure. A7

Annexure: A7

CER status on EC related to SVPIA Passenger Handling Capacity 40.33 MPPA (Issued 12/11/2022)

Sr No.	Commitment activity	Progress	Way forward
1	Conversion of airport owned conventional vehicles operated on fossil fuels to Bectric vehicles - 2.8 Cr.	Rs 7.57 Crs spent till date on EV's and charging station	Already complied
2	EV vehicle charging stations - 0.6 Cr		
3	Solar Power Plant/ Purchase of renewable - 30 Cr	Nil	To be protected under proposed ISTS RE project
4	Green Area Development near Bhat village and Surrounding areas - 2 Cr	20 Lakhs spent in FY25 1.2 CR planned in CY 26.	Project team is already investing Rs 1.2 Crs in tree plantation during FY26 . Hence nothing additionally to be spent this year for tree plantation

Annexure B.72

Annexure B 72

Times of India

Aaftab represented by legal aid counsel

TOI

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CORPORATE BUZZ

Department of Pension & Pensioners' Welfare distributed DLCs at SBI



સરકારે આપેલા વચનો પૂરા ન કર્યા : કિસાન મોરચા

કેન્દ્રએ વિશ્વાસઘાત કર્યો : ૨૬મીએ ખેડૂતો દેશભરમાં રાજભવનો ઘેરશે

૧થી ૧૧ ડિસેમ્બર સુધી સાંસદોના કાર્યાલયોનો ઘેરાવ કરાશે, કૃષિ કાયદા રદ થતા ૧૯મીએ વિજય દિન ઉજવાશે

ઓગસ્ટથી આદિવાસી વચ્ચે ચાલી રહેલી અથડામણ

સુદાનના દફુરમાં આદિવાસીઓ વચ્ચે અથડામણ : ૪૮નાં મોત, અનેક ઘાયલ

મધ્યસ્થતા કરવાના પ્રયત્ન કરી રહેલા લોકો પર અજ્ઞાત બંદૂકધારીઓના હુમલામાં ૨૪એ જીવ ગુમાવ્યો



સચિવ જનરલ સેક્રેટરી અરુણ કુમારનો દાવો

નકસલીઓ, કટ્ટરવાદીઓએ હિન્દુત્વ સામે ઈકોસિસ્ટમ તૈયાર કરી

યોગ્ય શિક્ષણ દ્વારા હિન્દુ-ભારત વિરોધીઓના વિચારોનો જવાબ આપવો શક્ય હોવાનો દાવો

સરકારને અમદાવાદ હાઈકોર્ટ સાથે ચર્ચા કરવા આદેશ

ગુજરાતના કોર્ટ ઈન્ફ્રાસ્ટ્રક્ચરથી બધા જ પ્રભાવિત છે : સુપ્રીમ કોર્ટ

કોર્ટોના બાંધકામને વધારે સારું બનાવવા માટે ગુજરાત મોડેલ અપનાવવાની પુષ્ટિ સરકારની સુપ્રીમમાં રજૂઆત

પત્નીના હત્યારા સ્વામીની સુપ્રીમમાં અરજી

રાજીવ ગાંધીના હત્યારાઓની જેમ મને પણ જેલમુક્ત કરો

ત્રણ યુવકોની અટકાયત, પોલીસનો ખુલાસો

સરકારે જમીનનું વળતર ન આપતા યુવકોએ અમદાવાદ-ઉદયપુર રેલવે ટ્રેક ઉડાવ્યો

Shirpur Shetkari Sahakari Sakhar Karkhana Ltd.

E-TENDER NOTICE

Shirpur Shetkari Sahakari Sugar Factory Ltd., Shirpurnagar Dahiwad, Shirpur Dist. Dhule is located on National Highway No 3, of 2500 Metric tonne per day factory for 10 years for Lease on E-tender from at https://eprocurement.synise.com from 17/11/2022 to 16/12/2022 evening available till 5.00 p.m. However, the tender fee is Rs 50,000/- and the deadline for uploading the tender will be 17/12/2022 at 5.00 p.m. Detailed terms and conditions are mentioned in the tender form.

- Contact -

Shri. Madhavrao Patil, Chairman

Shri. Shivajirao Patel, Vice Chairman

(Madhavrao Patil)
Chairman
Shirpur Shetkari Sahakari Sugar Factory Ltd.
Shirpurnagar, Dahiwad, Shirpur, Dist. Dhule

Annexure A-73

adani

AIAL/HSE/22-23/05

27.11.2022

To
The Deputy Municipal Commissioner (North Zone)
Rajiv Gandhi Bhavan,
Near Memco Cross Road, Naroda Rd,
Ahmedabad.

Subject: Submission of Environment Clearance and request to display it on the notice board of AMC for 30 days.

Ref : Environmental Clearance vide File no SIA/GJ/134807/2022 dated 11th November 2022

Dear Sir

This is to appraise you that Ahmedabad International Airport Ltd has obtained Environmental Clearance for the Proposed Capacity Expansion of Sardar Vallabhbhai Patel International Airport (SVPIA) to enhance the passenger handing capacity to 40.33 MPPA & cargo handling capacity up to 1.0 MTPA, by State Environment Impact Assessment Authority (SEIAA), Gujarat, vide EC identification No EC22B029GJ165952, File no SIA/GJ/134807/2022 dated 11th November 2022.

As per the Standard Condition B.10 (73), the copy of Environment Clearance is required to be submitted to the heads of local bodies, Panchayats and Municipal bodies, in addition to the relevant offices of Government for further display of the same.

In compliance to the above point, we hereby submit the final copy of Environment clearance to your office and further request you to display a copy of attached Environment Clearance on the notice board of Hansol, Asarva, Naroda, Kotarpur, Sejpurbodha and Sardarnagar for 30 days.

Yours Sincerely
For, Ahmedabad International Airport Limited

Hitarth Mankodi
Chief Airport Officer

CC : The Ward Officer, Sardarnagar Ward.

Ahmedabad International Airport Ltd
(Formerly known as Adani Ahmedabad International Airport Ltd)
Terminal-1 Building, 1st Floor
Sardar Vallabhbhai Patel International Airport
Ahmedabad 382 475
Gujarat, India
CIN: U63030GJ2019PLC110076

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www.ahmedabad.adaniairports.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382 421

Annexure B.74

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	IA/GJ/MIS/81117/2006
Compliance ID	128845270
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128845270/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	01-06-2025
RO/SRO Name	Shrawan Kumar Verma
RO/SRO Email	kr099.ifs@nic.in
State	GUJARAT
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar

Note:- SMS and E-Mail has been sent to Shrawan Kumar Verma, GUJARAT with Notification to Project Proponent.

Annexure. B.80

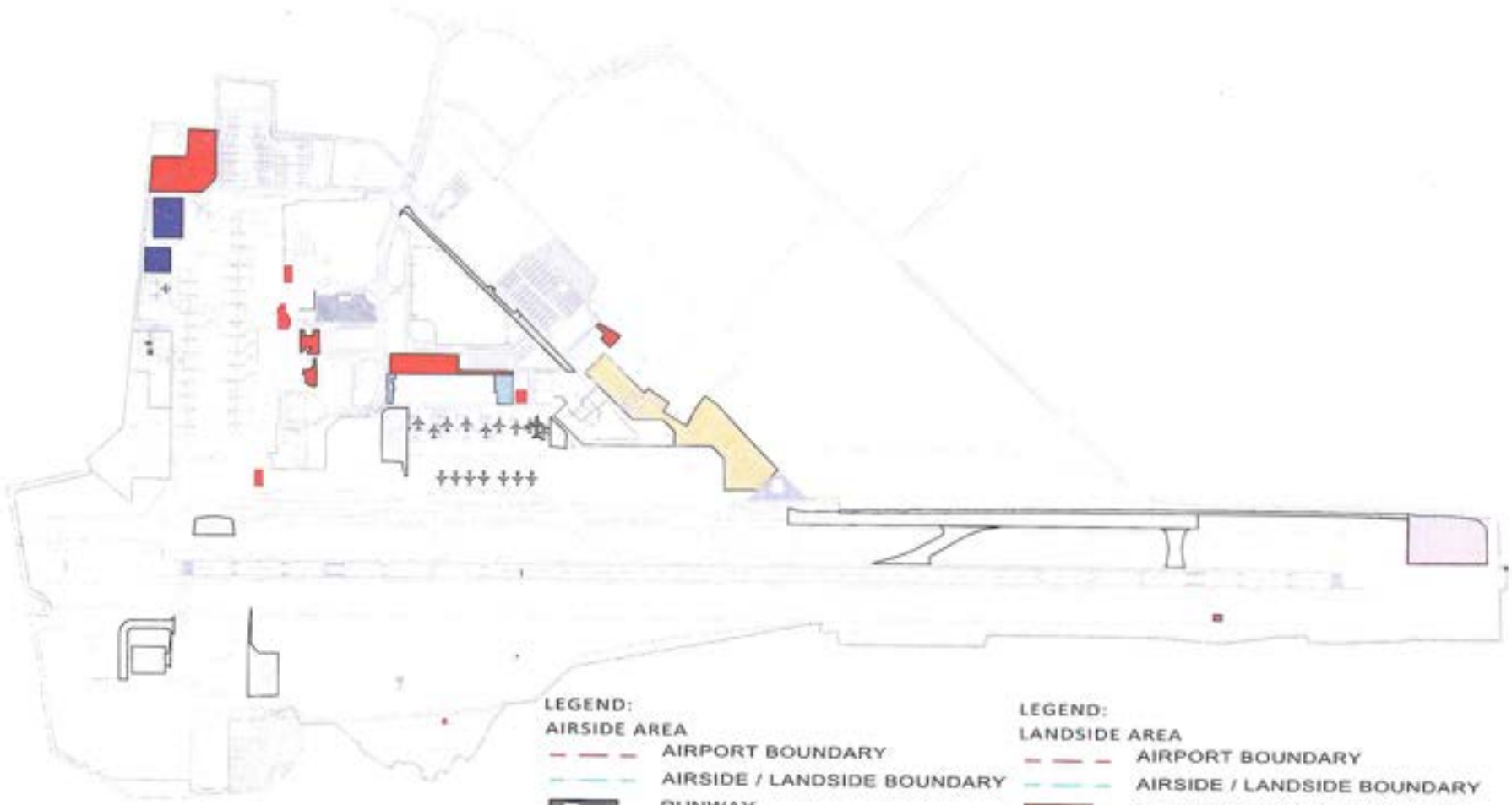
Annexure B.80

The Display board showing ambient air level parameters is provided at site. Photograph of the same has been given as



LEGEND:

COMPLETED / ON GOING WORK



LEGEND:
AIRSIDE AREA

- AIRPORT BOUNDARY
- AIRSIDE / LANDSIDE BOUNDARY
- RUNWAY
- APRON & TAXIWAYS
- TERMINAL
- UTILITY &SUPPORT FACILITIES
- ROAD & TRANSPORTATION
- GREEN / OPEN AREA
- CARGO COMPLEX
- CARVED OUT ASSETS
- HANGERS

LEGEND:
LANDSIDE AREA

- AIRPORT BOUNDARY
- AIRSIDE / LANDSIDE BOUNDARY
- UTILITY &SUPPORT FACILITIES
- ROAD & TRANSPORTATION
- GREEN AREA
- CARVED OUT ASSETS
- ATC COMPLEX

PROJECT TITLE
SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT, AHMEDABAD.

SUB TITLE
Existing Master Plan (Till 2036)- Area Detail
EC COMPLIANCE-TRACKER

PREPARED BY
AHMEDABAD INTERNATIONAL AIRPORT LTD.

Annexure - 8A