

**Environmental Clearance  
Six Monthly Compliance Report**

Mumbai International Airport Limited  
Terminal 1, Santacruz (East), Mumbai -  
400099

of

Chhatrapati Shivaji Maharaj International Airport  
(CSMIA)

For  
Period of April 2021 - September 2021



**Chhatrapati Shivaji Maharaj**  
INTERNATIONAL AIRPORT  
MUMBAI

Ref: MIAL/ENV/22/10

29<sup>th</sup> July 2022

To,  
Additional PCCF,  
Ministry of Environment, Forest, & Climate Change,  
Regional Office, WCZ, New Civil Lanes,  
Nagpur - 440001.

Dear Sir,

**Subject:** Half yearly Environmental Compliance report of Environment Clearance received for Upgradation of Chhatrapati Shivaji Maharaj International Airport by Mumbai International Airport Limited


**Ref:** - Environment clearance File no. 10-5/2007-IA-III dated 2<sup>nd</sup> June 2017

With reference to find above, please enclosed herewith the compliance Report of EC conditions for the period from April 21 to September 21.

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

  
Head - Environment & Sustainability

Encl: Half yearly Environmental Compliance report.

CC: 1) Zonal officer- Central Pollution Control Board, Vadodara

2) Regional officer - Maharashtra Pollution Control Board, Sion (E)

**Mumbai International Airport Limited**

Chhatrapati Shivaji Maharaj International Airport  
1st Floor, Terminal 1B, Santacruz (E),  
Mumbai 400 099,  
Maharashtra, India  
CIN: U45200MH2006PLC160164

Tel +91 22 6685 0900 / 6685 0901  
csmia.adaniairports.com

## **SIX MONTHLY COMPLIANCE REPORT**

**(Period of April to Oct of FY 21 -22)**

### **Present Status of Compliance to Conditions stipulated in EC F.No. 10-5/2007-IA-III dated 2<sup>nd</sup> June 2017**

Earlier EC 2007 was granted for expansion and modernization of Chhatrapati Shivaji Maharaj International Airport (CSMIA) by M/s Mumbai International Airport limited (MIAL) as phase - I and Phase-II components covering areas 16,39,759 sq. mts. and 8,02,145 sq. mts. respectively. The new EC "up gradation of Chhatrapati Shivaji Maharaj International Airport' accorded by Ministry of Environment & Forest and Climate Change on 2<sup>nd</sup> June 2017 for completion of balance work of EC 2007 and some of the new project undertaken within the existing airport land only and no additional land acquisition involved.

Compliance status of the conditions stipulated in EC letter is as below:

<b>S.N.</b>	<b>Conditions</b>	<b>Compliance Status</b>
<b>(A) Specific Condition</b>		
(i)	As proposed, this environmental clearance is only for up-gradation of Chhatrapati Shivaji International Airport.	Noted.
(ii)	The project proponent shall obtain clearance from DGCA and AAI for safety and project facilities.	Complied. Aerodrome license have been obtained from DGCA. License copy is attached as Annexure - 01.
(iii)	Construction site shall be adequately barricaded before the construction begins.	Complied. All construction sites are barricaded with metallic sheets before initiating construction activities. The same will be followed for remaining activities. Refer Annexure - 02 of Barricading practices
(iv)	Soil and other construction material shall be sprayed with water prior to any loading, unloading or transfer operations so as to maintain the dusty material wet.	Complied. Water sprinkling is carried out on the soil and construction material during high wind and in summer to ensure no dust pollution while loading & unloading. The same will be followed for remaining activities.
(v)	The soil/construction materials carried by the vehicles shall be covered by impervious sheeting to ensure that the dusty material do not leak from the vehicle	Complied. It is being ensured the vehicles / dumpers carrying soil and construction material are covered with tarpaulin to ensure no dust pollution during transportation. The same will be followed for remaining activities. Annexure - 03 for practices followed
(vi)	The excavation working area shall be sprayed with water after operation so as to maintain the entire surface wet.	Noted and being complied. At the time of excavation, measures to reduce dust pollution are being taken. The same will be followed for remaining activities

(vii)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal / vertical). Topsoil shall be separately stored and used in the development of green belt.	Noted for compliance Safety measures are being taken and soil sample shall be collected and analyzed for fertility to determine further usage as per conditions.
(viii)	A detailed drainage plan for rainwater shall be drawn up and implemented.	Complied, detailed drainage plan for rainwater has been implemented Approx. 45000-meter drainage network provided.
(ix)	Groundwater abstraction and rainwater recharge shall be as may be prescribed by the CGWA. A clearance from CGWA shall be obtained in this regard.	No ground water is abstracted for the any activity. Water requirements is met by MCGM water supply and treated water recycling.
(x)	Noise from vehicles and power machinery and equipment onsite shall not exceed the prescribed limit. Equipment should be regularly serviced. Attention shall also be given to muffler maintenance and enclosure of noisy equipment's.	Noted and being complied, vehicles and equipment's are being maintained as per manufacture recommendations. Noise level monitoring in and around airport premises is conducted regularly and are observed within prescribed limits. Refer Annexure -04 for monitoring reports.
(xi)	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7am to 6pm.	Noted for compliance and will be followed during the construction activities
(xii)	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete, bricks, timber, plastic, glass, metals, bitumen etc. shall be reused /recycled or disposed-off as per the Solid Waste Management Rule, 2016 and the Construction and Demolition Waste Rules 2016.	Complied, waste has been segregated, reused, and disposed as per the Solid Waste Management the Construction and Demolition Waste Rules.
(xiii)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulfur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board (SPCB).	Complied DG sets are used for emergency backup purpose only. Enclosures, stack, and low sulfur diesel is being used, near runway DG stack are provided as per aviation safety. Annexure -05 of photos DG sets.



(xiv)	Aircraft maintenance, sensitivity of the location where activities are undertaken and control of runoff of potential contaminants, chemicals etc. shall be properly implemented and reported.	Contingency plan for spills prevention is in place. Refer Annexure -06 Contingency plan for spills prevention.
(xv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. Oil interceptors are commissioned to contain spills. Annexure- 07 oil interceptors drawing.
(xvi)	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.	Complied. Oil interceptors are commissioned in compliance of condition.
(xvii)	Storm water drains are to be built for discharging storm water from airfield to avoid flooding/water logging in project area during monsoon season/cloud bursts.	Complied. Stormwaters drain system is built for discharging storm water.
(xviii)	Rainwater harvesting for roof run-off and surface runoff, as plan submitted should be implemented. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter, Oil & grease.	Rainwater recharge pits have been constructed at airside and near terminal buildings to capture roof run offs and use for recharging ground water table. Rainwater pits are provided with coarse sand and stone aggregate filtration.
(xix)	Total freshwater requirement from MCGM shall not exceed from 8 MLD	Complied. Average 2.2 MLD water sourced from MCGM during the period of April- 21 to September-21.
(xx)	Wastewater generation shall not exceed from 10 MLD and treated in the STP. Treated sewage shall be recycled / reused for cooling tower makeup, flushing and horticulture.	Wastewater generation is well within the limit average 1.6 MLD sewage generated per day during April to September 21. The treated water is fully recycled in flushing, HVAC and gardening.
(xxi)	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.	Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. Annexure -05 Acoustic enclosures of DG sets.

(xxii)	During airport operation period, noise shall 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. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.	Complied. Ambient air quality and noise levels are well within the limits. Parameters are being monitored by NABL approved third party Laboratory and continuous noise monitoring system. Monitoring reports are given in Annexure-04.
(xxiii)	The solid waste shall be segregated as per the norms of the Municipal Solid waste Management Rules 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site), plastics (from aircraft, terminals & offices), wood, waste oil and solvents (from maintenance and engineering operation), kitchen wastes and vegetable oils (from caterers) shall be carried out.	Complied, waste Management procedure has been implemented. waste segregation and disposal methods are followed as per stipulated regulatory requirements. Waste is collected in bins, segregated, and channelized to MPCB authorized waste handling agency. Waste handler does the segregation and further channelize for recycling and disposal according to rule. The hazardous wastes are collected and stored at designated storage area and disposed-off at MPCB authorized TSDF and recyclers.
(xxiv)	Traffic congestion near the entry and exit points from the roads adjoining the airport shall be avoided. Parking should be fully internalized, and no public space should be utilized.	Noted and complied, Multi-Level Car Parking buildings (MLCPs) have been constructed for vehicle parking with adequate capacity at both the passenger terminals.
(xxv)	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Noted and complied. Energy efficient lighting are considered during the design as well as at the time of replacement lighting more energy efficient fittings are considered. Terminal-2 is awarded with Platinum Rating Facility in existing building project category by CII. Any used CFL/TFL generated to be disposed as e-waste to authorized recyclers. Annexure-08 Certificate of Green Building Platinum Rating.
(xxvi)	An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district.	Complied.
(xxvii)	The concerns of the public hearing panel shall be suitably addressed to, and the recommendations adopted as part of the Environmental Management	Complied, EMP is being implemented. various CSR initiatives in the field of health, education, women empowerment, environment, etc. are being implemented.

	Plan and in the plan for CSR as applicable.	
(xxviii)	A water security plan, to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the CSR activity.	Complied, MIAL provided Rainwater harvesting facility for non-potable used and constructed toilet at a Zilla Parishad school catering to majorly underprivileged students in Shahapur District of Maharashtra.
<b>(B) GENERAL CONDITIONS</b>		
(i)	The project authorities must strictly adhere to the stipulations made by the SPCB, State Government and any other statutory authority	Noted, MPCB has granted Consent to Establish vide letter no BO/CAC-cell/UAN No. 16949/CE/CAC-1803000696 dated 14.03.2018 valid till 24.01.22 and stipulations made are being complied.
(ii)	No further modification of expansion in the project shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Noted
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (daytime) and 70dBA (nighttime)	Noted and complied. Regular ambient noise monitoring carried out in and around airport area. The noise levels measured are conforming to the standards prescribed under EPA Rules, 1989. Annexure -04 of Monitoring reports.
(iv)	A separate Environmental Management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring function.	Complied, an independent Environment department is functioning under the leadership of Chief Operating Officers and assisted by two Managers. A full-fledged laboratory for testing water parameters is operational and also ambient air, ambient noise levels are continuously monitored through permanently installed stations.
(v)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to	Noted and complied, Separate budget for Environment protection measures and initiatives are allocated every year. Approx. INR 2.32 Cr were spent

	implement to conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	in FY 2020-21 for STP O&M, waste disposal, greenery maintenance etc.
(vi)	The regional office of this Ministry/CPCB/SPCB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with the statistical interpretation shall be submitted to them regularly.	Noted, monitored data is being submitted along with six monthly compliance report. Last compliance report was submitted on December 14, 2020. Refer Annexure -09 letter of previous compliance report submission.
(vii)	A copy of clearance letter shall be sent by the proponent to be concerned Panchayat / Zila parishad / Municipal corporation, urban local body and the local NGO, if any from whom any suggestion / representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company the proponent.	The copy of clearance letter was submitted to MMRDA & Collector vide letter no MIAL/DIR(UP)/158(B)/2017/173 dated 28 <sup>th</sup> June 2017 and MIAL/DIR(UP)/158(B)/2017/175 dated 28 <sup>th</sup> June 2017 respectively.
(viii)	A project proponent shall also submit six monthly monitoring reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hardcopies as well as by e-mail) to the Regional Officer of MoEF&CC, the respective Zonal office of CPCB and the SPCB. The regional officer of this Ministry /CPCB/SPCB shall monitor the stipulated conditions.	Last six-monthly compliance report submitted to Ministry/CPCB/MPCB by letter no. MIAL/ENV/20/20 dated: December 14, 2020. Refer Annexure -09 letter of previous compliance report submission.
(ix)	The environmental statement for each financial year ending 31 <sup>st</sup> March in form -V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional office of MoEF&CC by e-mail.	The Environmental statement for FY 2019-20 is submitted on MPCB portal on 28 <sup>th</sup> September 2021. It is available also available on the website - <a href="https://csmia.adaniairports.com/all-reports.aspx">https://csmia.adaniairports.com/all-reports.aspx</a>  Refer Annexure – 10 Environment statement Form- V for FY 20-21.
(x)	The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry	Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 <sup>th</sup> December 2017.

	of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.	
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing of land development work.	Noted
(xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
(xiii)	The ministry reserves the right to stipulate additional conditions, if necessary. The company in time bound manner shall implement these conditions	Noted
(xiv)	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in writ petition (Civil) No 460 of 2004 as may be applicable to this subject.	Noted

**Annexure - 01 Aerodrome license**



**GOVERNMENT OF INDIA**  
**OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION**  
DGCA COMPLEX, OPP. SAFDARJUNG AIRPORT, NEW DELHI-110 003

File No. AV.20025/02/2006-AL  
License No. AL/Public/005

**AERODROME LICENSE - PUBLIC USE**

The Director General of Civil Aviation, in exercise of the powers under Rule 78 of the Aircraft Rules, 1937 delegated vide S.O. No. 727 (E) dated the 4<sup>th</sup> October, 1994, hereby grants license to,

**Mumbai International Airport Limited**

(Name of License holder)

for

**Chhatrapati Shivaji Maharaj International Airport, Mumbai**

(Name & Place of Aerodrome)

Latitude 19° 05' 29.6" N, Longitude 072° 51' 57.5" E (WGS-84)

the details of the aerodrome as contained in its Aerodrome Manual.

This license authorizes the aerodrome to be used as regular place of landing and departure to all persons on equal terms and conditions for operation by aircraft requiring specifications of runway and associated facilities equal to or less than those indicated in the aerodrome Manual, subject to the conditions as contained in schedule-I and for a period as shown in Schedule-II hereto.

The license is liable to be suspended/ modified/ withdrawn/ and/or any limitations or conditions may be imposed, if any violation of the provisions of the Aircraft Act 1934, Aircraft Rules 1937, or any orders/ directions/ requirements issued under the said Act, rules or of the limitations or conditions as in schedule-I are observed.

This Aerodrome License is not transferable.



Date of issue: 01<sup>st</sup> November 2018  
New Delhi

  
DIRECTOR GENERAL OF CIVIL AVIATION

SCHEDULE-I

GENERAL CONDITIONS

1. The Licensee shall ensure that aerodrome facilities, equipment, services and procedures are operated and / or maintained properly and efficiently in accordance with the Aerodrome Manual submitted to DGCA, the applicable standards set out in the CARs and conditions specified in this license.
2. The Licensee shall ensure that the copies of the Aerodrome Manual and Safety Management System (SMS) Manual, accepted by DGCA are always kept complete and current. The Licensee shall ensure that each member of the aerodrome operating staff is aware of the contents of the every part of the aerodrome manual and SMS manual, relevant to his duties and undertakes his duties in conformity with the relevant provisions of these manuals.
3. The Licensee shall ensure that an adequate number of qualified and skilled personnel are employed to perform all critical activities for the operation and maintenance of its aerodrome, and that a programme to upgrade the competency for the personnel is in place.
4. The Licensee shall notify the agency responsible for Aeronautical Information Services and the air traffic control unit immediately of any obstacles, obstructions or hazards, change in level of service at the aerodrome as set out in any publication by the aeronautical information services or variation from the Standards; closure of the movement area of the aerodrome; significant change in aerodrome facility or the physical layout of the aerodrome; and any other condition that could affect aviation safety at the aerodrome and against which precautions are warranted.
5. The Licensee shall notify the agency responsible for Aeronautical Information Services of any change to any aerodrome facility or equipment or level of service at the aerodrome which has been planned in advance and which is likely to affect the accuracy of the information contained in any publication by the agency before effecting the change.
6. The licensee shall be responsible to ensure that all security and anti-hijacking arrangements stipulated from time to time by the Bureau of Civil Aviation Security for the aerodrome are complied with.
7. When so demanded by an officer duly authorized under the Aircraft Rules, 1937, this license and any other relevant documents shall be produced for inspection.
8. The licensee shall be responsible for payment to the concerned authorities of all applicable charges pertaining to the services provided by such authorities in connection with the aerodrome operation such as water supply, electricity supply, telephone lines etc.
9. Licensee shall maintain record of all aircraft landing at and taking-off from the aerodrome.
10. The Licensee shall have legally tenable agreement with CNS and ATM service provider(s) to ensure continuity and reliability of CNS and ATM to ensure the safety of aircraft in the airspace associated with aerodrome, and that proper coordination with the agencies responsible for aeronautical information services, meteorological services, security and other areas related to safety are established.
11. The aerodrome shall at all reasonable times be open to use by any aircraft in the service of the Central Government.
12. The licensee shall ensure that during the validity of the license the capability of the services/facilities, etc. is not degraded below the notified level.
13. The licensee is to submit the application for renewal in prescribed proforma along with relevant enclosures and fee, at least 2 months before expiry of license to the Director General of Civil Aviation. The license may be renewed if DGCA is satisfied that all requirements have been fulfilled.
14. Other requirements of Central Government and State Government as applicable shall be complied with.



**License No. AL/Public/ 005**

15. The aerodrome is licensed for use in IFR (All weather) / ~~VFR (Day)~~ conditions.

16. Any other conditions ~~-----~~

i) Actions required to be completed by the licensee are specified in Annexure - I, hereto.

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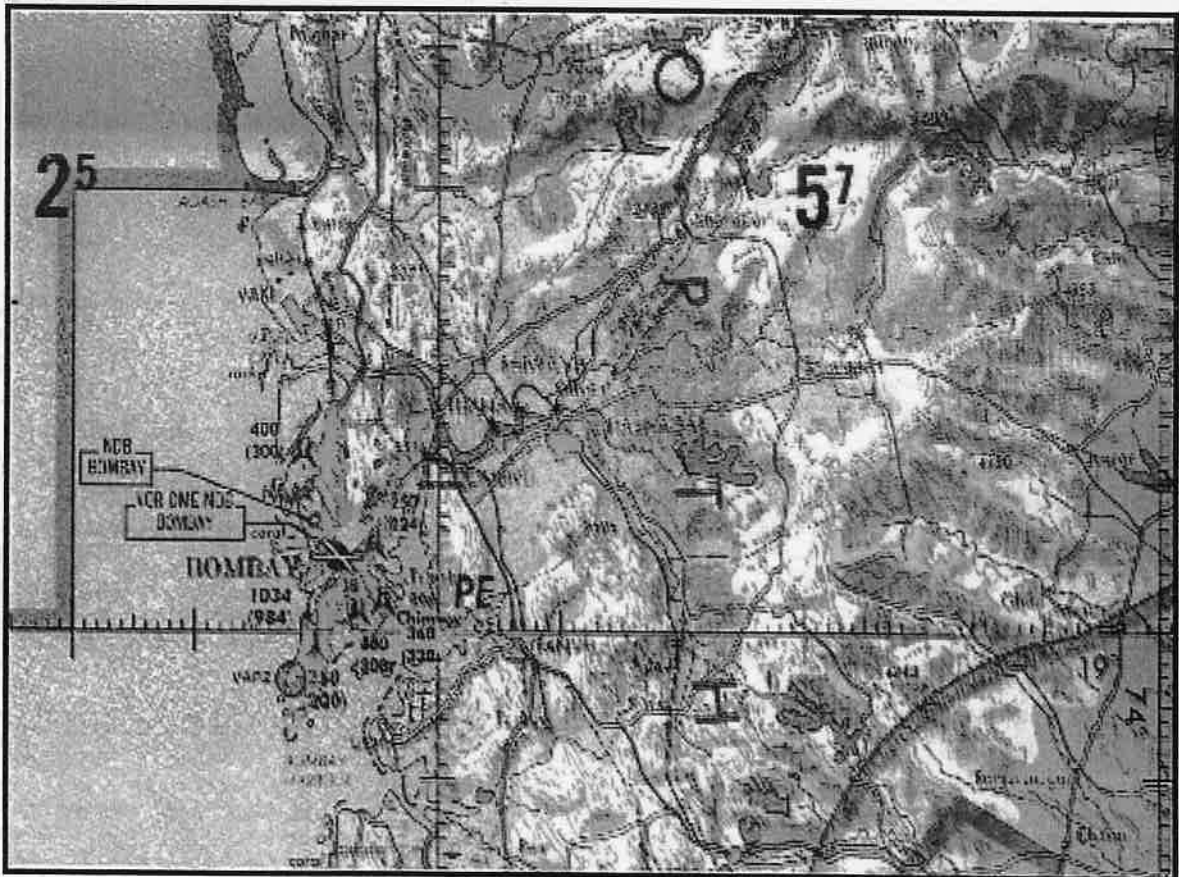
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Portion of map showing exact location of aerodrome.





**Annexure to SI. No. 16 of General Conditions of license.**

**Actions required to be completed by the licensee:-**

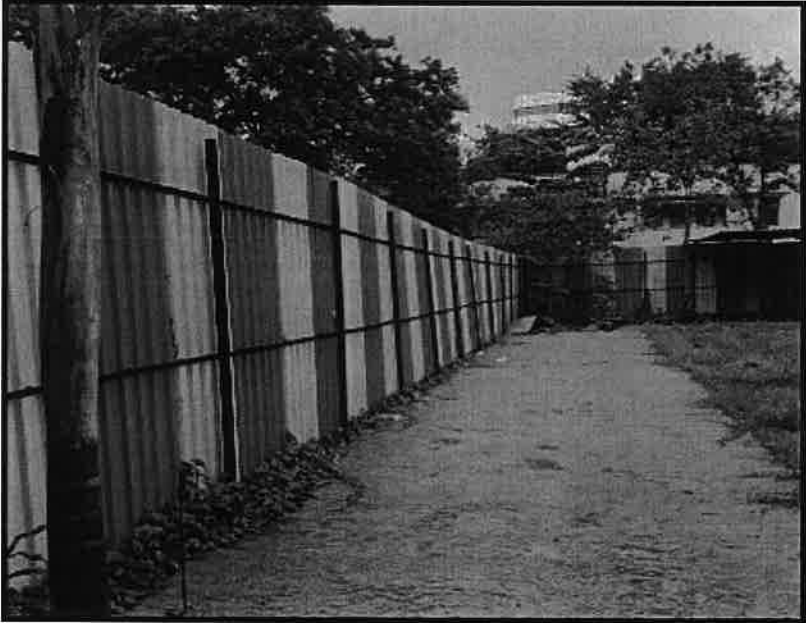
- i. Submission of detailed procedures with regard to operations and maintenance of visual and electrical aids maintained at CSMI Airport. The procedures are to be elaborated as part of the concerned chapter i.e. 'Aerodrome operating Procedures'.
- ii. Submission of Action plan including the time period by which licensee would be able to comply with the non-complied items as indicated in the CAR Section 4 series B Part-1 compliance checklist for CSMI Airport prepared by licensee.
- iii. The SMS Manual is required to be amended to include the role of Safety Officer. The SMS implementation plan is also required to be worked out.
- iv. The aerodrome Operator should possess the updated OLS maps.

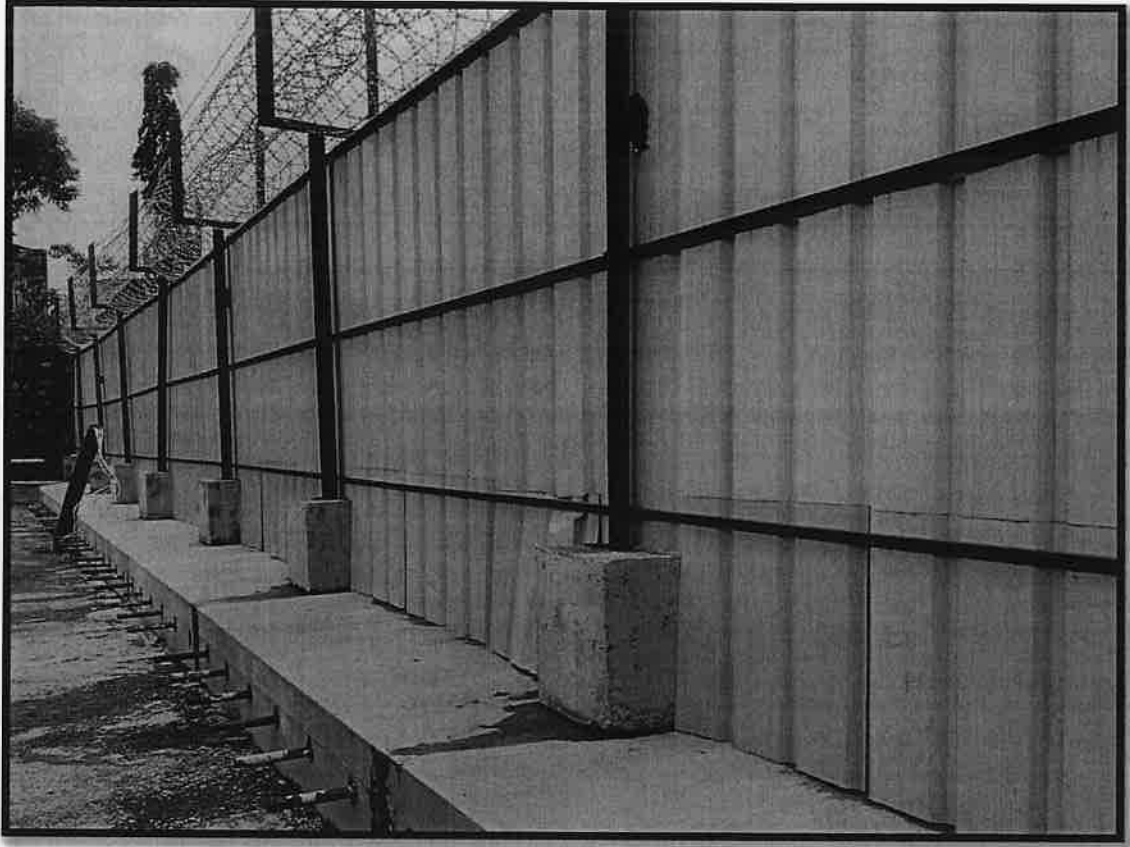


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**Annexure - 02 Barricading practices**

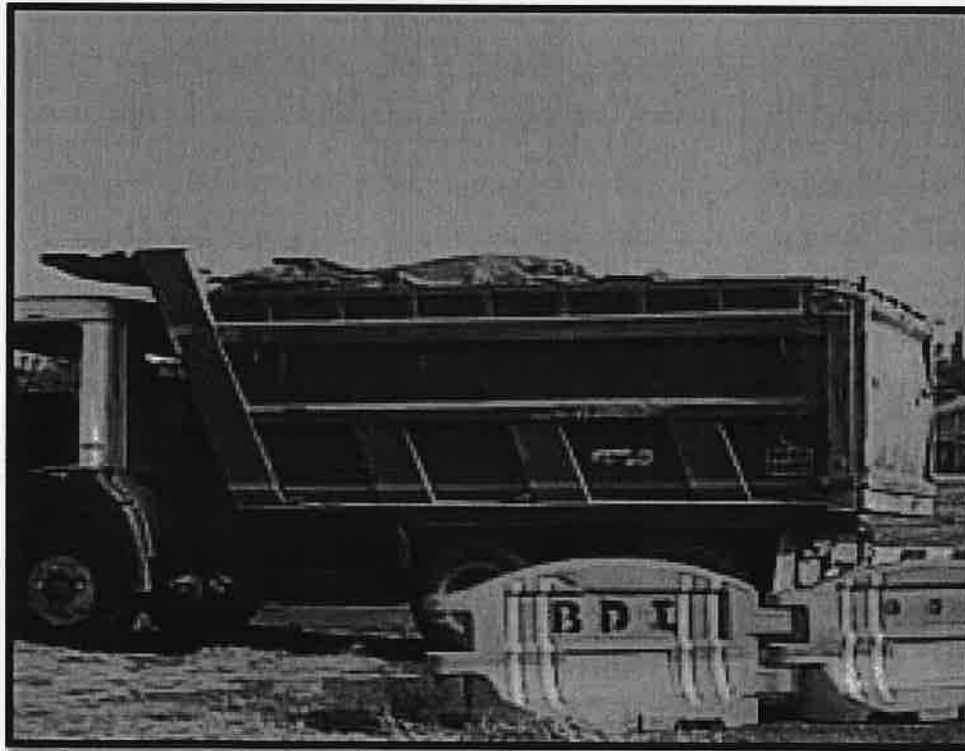
Annexure - 02 Barricading practices for Construction site





**Annexure - 3 Construction material truck covered by impervious  
sheeting**

Annexure -03 -





**Annexure -04 For monitoring reports**



## ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/04/64

Issue Date: 03/05/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099			
Name of Site	:	Mumbai International Airport			
Nature of sample	:	Ambient Air			
Location of sample	:	OWTF (Kurla)			
Sample Identification number	:	A- 21/04/64			
Sample Quantity & Container	:	SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml			
Date of sampling	:	21/04/2021			
Start Time of sampling	:	09:00 hrs			
Sampling period	:	24 hrs			
Environmental Condition	:	Climate clear Ambient temp. 33°C			
Date of sample receipt	:	24/04/2021			
Date of sample analysis	:	24/04/2021- 29/04/2021			
Monitored & transported by	:	AESPL Consultancy Division			
Sampling equipment	:	Air Sampler RDS-I-09 & FDS-I-09			
Calibration status	:	Calibrated on 01/01/2021 Calibration due on 31/12/2021			
Project/ Job number	:	PO 4600005431 Dated 26/05/2020			
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02			
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/A-01			
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	15.4	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	25.1	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	65.6	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	23.8	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.43	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Above all parameters are not covered under NABL scope.
4. Any query related to this report will be entertained within 15 days of the report issue date only.
5. Decision Rule is applied.
6. The results apply to the sample as received.



Chetan A Kadam  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Ambient Air Quality Test Report**

Ref. No.: AESPL/LAB/A- 21/04/65

Issue Date: 03/05/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
<b>Name of Site</b>	: Mumbai International Airport				
<b>Nature of sample</b>	: Ambient Air				
<b>Location of sample</b>	: Sarvodaya Hospital (Ghatkopar)				
<b>Sample Identification number</b>	: A- 21/04/65				
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
<b>Date of sampling</b>	: 21/04/2021				
<b>Start Time of sampling</b>	: 09:30 hrs				
<b>Sampling period</b>	: 24 hrs				
<b>Environmental Condition</b>	: Climate clear				Ambient temp. 33°C
<b>Date of sample receipt</b>	: 24/04/2021				
<b>Date of sample analysis</b>	: 24/04/2021- 29/04/2021				
<b>Monitored &amp; transported by</b>	: AESPL Consultancy Division				
<b>Sampling equipment</b>	: Air Sampler RDS-I-10 & FDS-I-10				
<b>Calibration status</b>	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
<b>Project/ Job number</b>	: PO 4600005431 Dated 26/05/2020				
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
<b>Sr.No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Limits #</b>	<b>Unit</b>	<b>Method of Analysis</b>
1.	SO <sub>2</sub>	14.5	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	63.7	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	23.8	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.37	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[\*] 24 hourly monitoring values; [\*\*] 1 hourly monitoring values; [\*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS) 2009.

**Note:**

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3. Above all parameters are not covered under NABL scope.
4. Any query related to this report will be entertained within 15 days of the report issue date only.
5. Decision Rule is applied.
6. The results apply to the sample as received.



**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/04/66

Issue Date: 03/05/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099			
Name of Site	:	Mumbai International Airport			
Nature of sample	:	Ambient Air			
Location of sample	:	Project Office (Sahar)			
Sample Identification number	:	A- 21/04/66			
Sample Quantity & Container	:	SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml			
Date of sampling	:	22/04/2021			
Start Time of sampling	:	10:00 hrs			
Sampling period	:	24 hrs			
Environmental Condition	:	Climate clear Ambient temp. 33°C			
Date of sample receipt	:	24/04/2021			
Date of sample analysis	:	24/04/2021- 29/04/2021			
Monitored & transported by	:	AESPL Consultancy Division			
Sampling equipment	:	Air Sampler RDS-I-09 & FDS-I-09			
Calibration status	:	Calibrated on 01/01/2021 Calibration due on 31/12/2021			
Project/ Job number	:	PO 4600005431 Dated 26/05/2020			
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02			
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/A-01			
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	15.8	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	25.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	65.3	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	24.4	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.49	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

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4. Any query related to this report will be entertained within 15 days of the report issue date only.
5. Decision Rule is applied.
6. The results apply to the sample as received.



Chetan A Kadam  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Ambient Air Quality Test Report**

Ref. No.: AESPL/LAB/A- 21/04/67

Issue Date: 03/05/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
<b>Name of Site</b>	: Mumbai International Airport				
<b>Nature of sample</b>	: Ambient Air				
<b>Location of sample</b>	: MLCP (Vile Parle)				
<b>Sample Identification number</b>	: A- 21/04/67				
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
<b>Date of sampling</b>	: 22/04/2021				
<b>Start Time of sampling</b>	: 10:30 hrs				
<b>Sampling period</b>	: 24 hrs				
<b>Environmental Condition</b>	: Climate clear				Ambient temp. 33°C
<b>Date of sample receipt</b>	: 24/04/2021				
<b>Date of sample analysis</b>	: 24/04/2021- 29/04/2021				
<b>Monitored &amp; transported by</b>	: AESPL Consultancy Division				
<b>Sampling equipment</b>	: Air Sampler RDS-I-10 & FDS-I-10				
<b>Calibration status</b>	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
<b>Project/ Job number</b>	: PO 4600005431 Dated 26/05/2020				
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
<b>Sr.No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Limits #</b>	<b>Unit</b>	<b>Method of Analysis</b>
1.	SO <sub>2</sub>	15.3	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.7	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	64.4	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	23.8	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.40	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

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5. Decision Rule is applied.
6. The results apply to the sample as received.



**Chetan A Kadam**  
 (Authorized Signatory - Pollution & Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/05/23

Issue Date: 24/05/2021

Name of Client	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Name of Site	Mumbai International Airport				
Nature of sample	Ambient Air				
Location of sample	OWTF (Kurla)				
Sample Identification number	A- 21/05/23				
Sample Quantity & Container	SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
Date of sampling	10/05/2021				
Start Time of sampling	09:00 hrs				
Sampling period	24 hrs				
Environmental Condition	Climate clear				Ambient temp. 33°C
Date of sample receipt	13/05/2021				
Date of sample analysis	14/05/2021- 21/05/2021				
Monitored & transported by	AESPL Consultancy Division				
Sampling equipment	Air Sampler RDS-I-09 & FDS-I-09				
Calibration status	Calibrated on 01/01/2021 Calibration due on 31/12/2021				
Project/ Job number	PO 4600005431 Dated 26/05/2020				
Reference of sampling	AESPL/LAB/QR/7.3.3/R-02				
Method of sampling & preservation	AESPL/LAB/SOP/7.3.1/A-01				
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	15.5	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	23.9	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	64.9	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	22.9	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.37	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[\*] 24 hourly monitoring values; [\*\*] 1 hourly monitoring values; [\*\*\*] annually monitoring values.

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3. Any query related to this report will be entertained within 15 days of the report issue date only.
4. Decision Rule is applied.
5. The results apply to the sample as received.



**Chetan A Kadam**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-





# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/05/24

Issue Date: 24/05/2021

<b>Name of Client</b>		: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099			
<b>Name of Site</b>		: Mumbai International Airport			
<b>Nature of sample</b>		: Ambient Air			
<b>Location of sample</b>		: Sarvodaya Hospital (Ghatkopar)			
<b>Sample Identification number</b>		: A- 21/05/24			
<b>Sample Quantity &amp; Container</b>		: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml			
<b>Date of sampling</b>		: 10/05/2021			
<b>Start Time of sampling</b>		: 09:30 hrs			
<b>Sampling period</b>		: 24 hrs			
<b>Environmental Condition</b>		: Climate clear		: Ambient temp. 33°C	
<b>Date of sample receipt</b>		: 13/05/2021			
<b>Date of sample analysis</b>		: 14/05/2021- 21/05/2021			
<b>Monitored &amp; transported by</b>		: AESPL Consultancy Division			
<b>Sampling equipment</b>		: Air Sampler RDS-I-10 & FDS-I-10			
<b>Calibration status</b>		: Calibrated on 01/01/2021 Calibration due on 31/12/2021			
<b>Project/ Job number</b>		: PO 4600005431 Dated 26/05/2020			
<b>Reference of sampling</b>		: AESPL/LAB/QR/7.3.3/R-02			
<b>Method of sampling &amp; preservation</b>		: AESPL/LAB/SOP/7.3.1/A-01			
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	14.2	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	62.9	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	20.8	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.34	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

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-End of Test Report-



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Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/05/25

Issue Date: 24/05/2021

Name of Client	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Name of Site	: Mumbai International Airport				
Nature of sample	: Ambient Air				
Location of sample	: Project Office (Sahar)				
Sample Identification number	: A- 21/05/25				
Sample Quantity & Container	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
Date of sampling	: 11/05/2021				
Start Time of sampling	: 09:10 hrs				
Sampling period	: 24 hrs				
Environmental Condition	: Climate clear Ambient temp. 33°C				
Date of sample receipt	: 13/05/2021				
Date of sample analysis	: 14/05/2021- 21/05/2021				
Monitored & transported by	: AESPL Consultancy Division				
Sampling equipment	: Air Sampler RDS-I-09 & FDS-I-09				
Calibration status	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
Project/ Job number	: PO 4600005431 Dated 26/05/2020				
Reference of sampling	: AESPL/LAB/QR/7.3.3/R-02				
Method of sampling & preservation	: AESPL/LAB/SOP/7.3.1/A-01				
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	15.5	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	23.7	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	63.8	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	21.3	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.39	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

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5. The results apply to the sample as received.



**Chetan A Kadam**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-





# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/05/26

Issue Date: 24/05/2021

Name of Client	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Name of Site	: Mumbai International Airport				
Nature of sample	: Ambient Air				
Location of sample	: MLCP (Vile Parle)				
Sample Identification number	: A- 21/05/26				
Sample Quantity & Container	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
Date of sampling	: 11/05/2021				
Start Time of sampling	: 09:30 hrs				
Sampling period	: 24 hrs				
Environmental Condition	: Climate clear				Ambient temp. 33°C
Date of sample receipt	: 13/05/2021				
Date of sample analysis	: 14/05/2021- 21/05/2021				
Monitored & transported by	: AESPL Consultancy Division				
Sampling equipment	: Air Sampler RDS-I-10 & FDS-I-10				
Calibration status	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
Project/ Job number	: PO 4600005431 Dated 26/05/2020				
Reference of sampling	: AESPL/LAB/QR/7.3.3/R-02				
Method of sampling & preservation	: AESPL/LAB/SOP/7.3.1/A-01				
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	15.9	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.8	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	64.8	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	22.1	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.52	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

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4. Decision Rule is applied.
5. The results apply to the sample as received.



**Chetan A Kadam**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/06/108

Issue Date: 02/07/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099
Name of Site	:	Mumbai International Airport
Nature of sample	:	Ambient Air
Location of sample	:	OWTF (Kurla)
Sample Identification number	:	A- 21/06/108
Sample Quantity & Container	:	SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml
Date of sampling	:	24/06/2021
Start Time of sampling	:	09:00 hrs
Sampling period	:	24 hrs
Environmental Condition	:	Climate clear Ambient temp. 29°C
Date of sample receipt	:	26/06/2021
Date of sample analysis	:	26/06/2021- 02/07/2021
Monitored & transported by	:	AESPL Consultancy Division
Sampling equipment	:	Air Sampler RDS-I-09 & FDS-I-09
Calibration status	:	Calibrated on 01/01/2021 Calibration due on 31/12/2021
Project/ Job number	:	4600005431; Amd 03 dtd 27.04.21
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/A-01

Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	14.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	23.9	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	62.2	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	20.4	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.37	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only.
4. Decision Rule is applied.
5. The results apply to the sample as received.



**Chetan A Kadam**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/06/109

Issue Date: 02/07/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
<b>Name of Site</b>	: Mumbai International Airport				
<b>Nature of sample</b>	: Ambient Air				
<b>Location of sample</b>	: Sarvodaya Hospital (Ghatkopar)				
<b>Sample Identification number</b>	: A- 21/06/109				
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
<b>Date of sampling</b>	: 24/06/2021				
<b>Start Time of sampling</b>	: 09:30 hrs				
<b>Sampling period</b>	: 24 hrs				
<b>Environmental Condition</b>	: Climate clear				Ambient temp. 29°C
<b>Date of sample receipt</b>	: 26/06/2021				
<b>Date of sample analysis</b>	: 26/06/2021- 02/07/2021				
<b>Monitored &amp; transported by</b>	: AESPL Consultancy Division				
<b>Sampling equipment</b>	: Air Sampler RDS-I-10 & FDS-I-10				
<b>Calibration status</b>	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
<b>Project/ Job number</b>	: 4600005431; Amd 03 dtd 27.04.21				
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	14.2	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.2	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	62.9	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	20.8	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.38	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[\*] 24 hourly monitoring values; [\*\*] 1 hourly monitoring values; [\*\*\*] annually monitoring values.

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4. Decision Rule is applied.
5. The results apply to the sample as received.



**Chetan A Kadam**  
 (Authorized Signatory - Pollution & Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/06/110

Issue Date: 02/07/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
<b>Name of Site</b>	: Mumbai International Airport				
<b>Nature of sample</b>	: Ambient Air				
<b>Location of sample</b>	: Project Office (Sahar)				
<b>Sample Identification number</b>	: A- 21/06/110				
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
<b>Date of sampling</b>	: 25/06/2021				
<b>Start Time of sampling</b>	: 09:10 hrs				
<b>Sampling period</b>	: 24 hrs				
<b>Environmental Condition</b>	: Climate clear Ambient temp. 29°C				
<b>Date of sample receipt</b>	: 26/06/2021				
<b>Date of sample analysis</b>	: 26/06/2021- 02/07/2021				
<b>Monitored &amp; transported by</b>	: AESPL Consultancy Division				
<b>Sampling equipment</b>	: Air Sampler RDS-I-09 & FDS-I-09				
<b>Calibration status</b>	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
<b>Project/ Job number</b>	: 4600005431; Amd 03 dtd 27.04.21				
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
<b>Sr.No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Limits #</b>	<b>Unit</b>	<b>Method of Analysis</b>
1.	SO <sub>2</sub>	13.9	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	24.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	61.4	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	20.4	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.40	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

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**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/06/111

Issue Date: 02/07/2021

Name of Client	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Name of Site	: Mumbai International Airport				
Nature of sample	: Ambient Air				
Location of sample	: MLCP (Vile Parle)				
Sample Identification number	: A- 21/06/111				
Sample Quantity & Container	: SO <sub>2</sub> :3 Bottle x 30 ml; NO <sub>x</sub> :3 Bottle x 30 ml; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> & NH <sub>3</sub> :3 Bottle x 30 ml				
Date of sampling	: 25/06/2021				
Start Time of sampling	: 09:30 hrs				
Sampling period	: 24 hrs				
Environmental Condition	: Climate clear				Ambient temp.29°C
Date of sample receipt	: 26/06/2021				
Date of sample analysis	: 26/06/2021- 02/07/2021				
Monitored & transported by	: AESPL Consultancy Division				
Sampling equipment	: Air Sampler RDS-I-10 & FDS-I-10				
Calibration status	: Calibrated on 01/01/2021 Calibration due on 31/12/2021				
Project/ Job number	: PO 4600005431 Dated 26/05/2020				
Reference of sampling	: AESPL/LAB/QR/7.3.3/R-02				
Method of sampling & preservation	: AESPL/LAB/SOP/7.3.1/A-01				
Sr.No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	SO <sub>2</sub>	14.0	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	NO <sub>2</sub>	23.9	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2017
3.	PM <sub>10</sub>	62.9	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2017
4.	PM <sub>2.5</sub>	21.3	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
6.	CO	0.42	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
7.	NH <sub>3</sub>	< 1.0	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] annually monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

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4. Decision Rule is applied.
5. The results apply to the sample as received.



**Chetan A Kadam**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-





### AMBIENT AIR QUALITY MONITORING REPORT

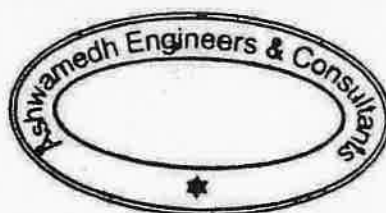
Sample ID: AA/07/21/0536	Report No.: AA/07/21/0536	Report Date	04/08/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Project Office Sahara	Date-Sampling	28/07/2021 to 29/07/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/07/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/08/2021
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 10.3 km/h	Wind Direction E	Relative Humidity (Max./ Min.): 83/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<b>30.8</b>	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<b>&lt;6.5</b>	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	<b>53</b>	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	<b>11</b>	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<b>&lt;0.02</b>	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	<b>1.28</b>	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<b>&lt;4</b>	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
 # NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 Reviewed & Authorised by



-----End of Report-----

**Note:**

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3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviation or exclusions from the method.





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/07/21/0537	Report No.: AA/07/21/0537	Report Date	04/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Terminal 1 MLCP (Santacruz)	Date-Sampling	28/07/2021 to 29/07/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/07/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/08/2021
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

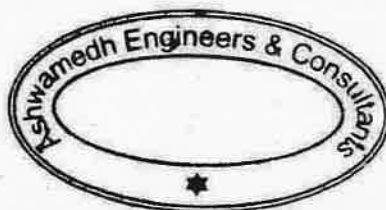
### Meteorological Data / Environmental Conditions

Average Wind velocity 10.2 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 83/69%	Temperature (Max./Min.): 29/23°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	21.5	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	51	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	10	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.14	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
 # NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
 Ninad Soundankar

Technical Manager (Chemical)  
 Reviewed & Authorised by



-----End of Report-----

**Note:**

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4. There are no additions to, deviation or exclusions from the method.





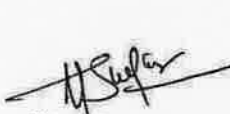
### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/07/21/0538	Report No.: AA/07/21/0538	Report Date	04/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	OWC (Kurla)	Date-Sampling	28/07/2021 to 29/07/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/07/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/08/2021
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

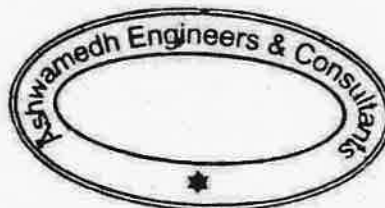
### Meteorological Data / Environmental Conditions

Average Wind velocity 10.4 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 84/69%	Temperature (Max./Min.): 28/23°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<6.5	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	55	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	11	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method 10-3.1 G 3.2, Jun 1999
Carbon Monoxide (CO)	1.04	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
 # NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.



Ninad Soundankar  
 Technical Manager (Chemical)  
 Reviewed & Authorised by



-----End of Report-----

**Note:**

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4. There are no additions to, deviation or exclusions from the method.







### AMBIENT AIR QUALITY MONITORING REPORT

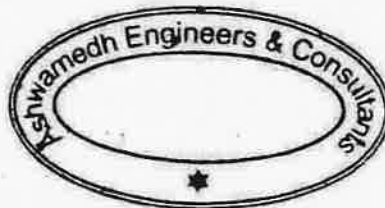
Sample ID: AA/07/21/0539	Report No.: AA/07/21/0539	Report Date	04/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	28/07/2021 to 29/07/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/07/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/08/2021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 10.2 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 81/69%	Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<b>21.9</b>	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<b>7.45</b>	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	<b>44</b>	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	<b>10</b>	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	<b>&lt;0.02</b>	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method IO-316 3.2, Jun 1999
Carbon Monoxide (CO)	<b>1.05</b>	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<b>&lt;4</b>	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
 # NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 Reviewed & Authorised by



-----End of Report-----

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### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/21/0327	Report No.: AA/08/21/0327	Report Date	31/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Project Office Sahar	Date-Sampling	24/08/2021 to 25/08/2021
Sample Quantity/ Packing	PM <sub>10</sub> ,Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	26/08/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	30/08/2021
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

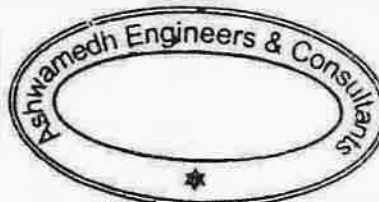
### Meteorological Data / Environmental Conditions

Average Wind velocity 10.9 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.):72/59%	Temperature (Max./Min.):31/27°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<6.5	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	43	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	7	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method 10-3J & 3.2, Jun 1999
Carbon Monoxide (CO)	2.16	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



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### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/21/0328	Report No.: AA/08/21/0328	Report Date	31/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Terminal (1) MLCP Santacruz	Date-Sampling	24/08/2021 to 25/08/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	26/08/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	30/08/2021
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

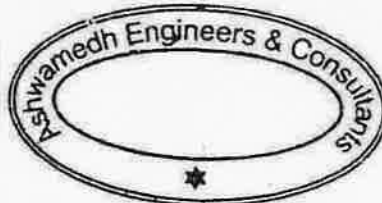
### Meteorological Data / Environmental Conditions

Average Wind velocity 11.2 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 71/57%	Temperature (Max./Min.): 31/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<6.5	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	39	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	11	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 Jun 1999
Carbon Monoxide (CO)	1.83	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



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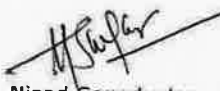
### AMBIENT AIR QUALITY MONITORING REPORT

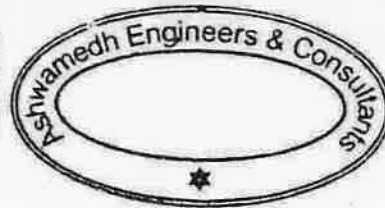
Sample ID: AA/08/21/0329	Report No.: AA/08/21/0329	Report Date	31/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	OWC Kurla	Date-Sampling	24/08/2021 to 25/08/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	26/08/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	30/08/2021
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 11.4 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 71/58%	Temperature (Max./Min.): 31/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	14.6	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	45	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	8	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-98/010 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.61	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



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### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/21/0330	Report No.: AA/08/21/0330	Report Date	31/08/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)
Sampling Location	Sarvoday Hospital	Date-Sampling	24/08/2021 to 25/08/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 1 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	26/08/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	30/08/2021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

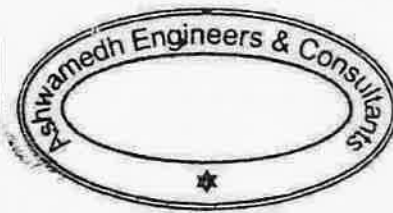
### Meteorological Data / Environmental Conditions

Average Wind velocity 10.8 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 74/62%	Temperature (Max./Min.): 31/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>CHEMICAL TESTING</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<4	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	<6.5	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	46	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	9	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.58	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Ninad Soundankar  
Technical Manager (Chemical)  
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### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/0550	Report No.: AA/09/21/0550	Report Date	05/10/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/2021
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

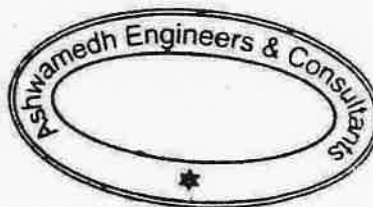
### Meteorological Data / Environmental Conditions

Average Wind velocity 9.7 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 79/67%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality, Meteorological Parameters</b>				
Sulphur Dioxide (SO <sub>2</sub> )	5.06	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	10.7	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	33	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	6	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.81	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



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### AMBIENT AIR QUALITY MONITORING REPORT

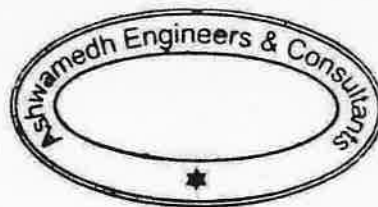
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Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/2021
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 9.9 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 74/62%	Temperature (Max./Min.): 30/28°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality, Meteorological Parameters</b>				
Sulphur Dioxide (SO <sub>2</sub> )	4.88	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	10.7	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	48	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	10	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.89	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA Time Weighted Average  
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



-----End of Report-----

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### AMBIENT AIR QUALITY MONITORING REPORT

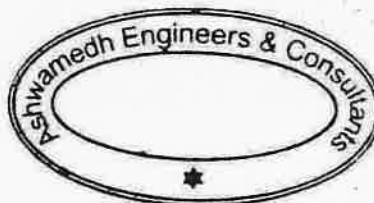
Sample ID: AA/09/21/0552	Report No.: AA/09/21/0552	Report Date	06/10/2021
Name & Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/10/2021
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 11 km/h	Wind Direction S-E	Relative Humidity (Max./Min.): 70/62%	Temperature (Max./Min.): 30/28°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality, Meteorological Parameters</b>				
Sulphur Dioxide (SO <sub>2</sub> )	5.32	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	11	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	36	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	7	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/D10 a Compendium Method 10-31 B 3.2, Jun 1999
Carbon Monoxide (CO)	1.44	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA # Time Weighted Average  
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

*(Signature)*



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

End of Report

**Note:**

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4. There are no additions to, deviation or exclusions from the method.





### AMBIENT AIR QUALITY MONITORING REPORT

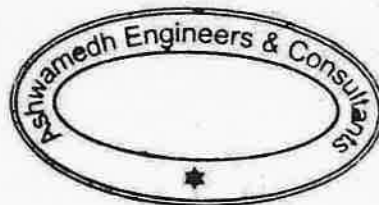
Sample ID: AA/09/21/0553	Report No.: AA/09/21/0553	Report Date	05/10/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 30 ml x 6 no. plastic bottle each NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/2021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated 29.11.2018			

### Meteorological Data / Environmental Conditions

Average Wind velocity 10.2 km/h	Wind Direction S-E	Relative Humidity (Max./Min.):72/60%	Temperature (Max./Min.):30/28°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
<b>Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality, Meteorological Parameters</b>				
Sulphur Dioxide (SO <sub>2</sub> )	4.91	80	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO <sub>2</sub> )	10.8	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	35	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	9	60	µg/m <sup>3</sup>	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m <sup>3</sup>	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.9	4	mg/m <sup>3</sup>	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-7

TWA # Time Weighted Average  
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



End of Report

**Note:**

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4. There are no additions to, deviation or exclusions from the method.





## ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/04/58-59

Report Date: 03/05/2021

Name of the client	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099					
Name of site	: Mumbai International Airport					
Location	: Air side					
Monitoring date	: 21/04/2021					
Environmental condition	: Climate clear			: Ambient temp. 33°C		
Monitored & transported by	: AESPL Consultancy Division					
Project/ Job number	: PO 4600005431 Dated 26/05/2020					
Reference of sampling	: AESPL/LAB/QR/7.3.3/R-02					
Method of sampling	: IS 9989: RA 2014					
Instrument used	: Noise meter - Centre C-390 SI:190111462 Noise meter - Centre C-390 SI:190111464					
Calibration status	: Calibration details: 25/12/2021 to 24/12/2021					
Location	Day Time (Leq)			Night Time (Leq)		
	Max	Min	Avg	Max	Min	Avg
Project Office (Andheri Sahar)	78.3	53.7	61.0	74.4	50.8	57.2
OWC (Kurla)	86.6	55.1	68.6	81.9	52.0	64.7
Limiting Standards as per EPA Schedule II	75 dB(A)			70 dB(A)		

1. The test report shall not be reproduced except in full, without written approval of laboratory
2. Results relate only to the items tested
3. Above parameter is presently not covered under NABL scope
4. The results apply to the sample as received.



Chetan A Kadam  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Ambient Noise Quality Test Report**

Ref: AESPL/LAB/N-21/05/50-57

Report Date: 24/05/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099					
<b>Name of site</b>	:	Mumbai International Airport					
<b>Location</b>	:	Air side					
<b>Monitoring date</b>	:	11,12,17&18/05/2021					
<b>Environmental condition</b>	:	Climate clear	Ambient temp. 33°C				
<b>Monitored by</b>	:	AESPL Consultancy Division					
<b>Project/ Job number</b>	:	PO 4600005431; Amd 03 dtd 27.04.21					
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02					
<b>Method of sampling</b>	:	IS 9989: RA 2014					
<b>Instrument used</b>	:	Noise meter - Centre C-390 SI:190111462 Noise meter - Centre C-390 SI:190111464					
<b>Calibration status</b>	:	Calibration details: 25/12/2021 to 24/12/2021					
<b>Location</b>	<b>Day Time (Leq)</b>			<b>Night Time (Leq)</b>			
	<b>Max</b>	<b>Min</b>	<b>Avg</b>	<b>Max</b>	<b>Min</b>	<b>Avg</b>	
Air side Cargo gate 4D	82.2	52.3	65.5	74.6	49.0	60.3	
Air side CMD Civil store	91.9	46.1	59.3	75.7	46.9	55.5	
Air side Gate No-6 T-2	82.8	62.0	71.1	75.2	57.3	69.5	
Air side Runway west 27	97.6	46.2	64.5	94.5	49.2	63.3	
Air side STP T-1	87.6	49.7	73.0	79.6	53.5	63.9	
Air side Runway 14 end	87.9	52.7	69.1	97.4	52.1	66.1	
Air side CCR 2	80.8	45.3	54.4	71.2	42.0	48.2	
Air side Lima 8 Apron	92.1	49.4	70.1	93.6	54.7	63.2	
<b>Limiting Standards as per EPA Schedule II</b>	<b>75 dB(A)</b>			<b>70 dB(A)</b>			

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3. The results apply to the sample as received.



**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/05/58-61

Report Date: 24/05/2021

Name of the client	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099					
Name of site	Mumbai International Airport					
Location	Air side					
Monitoring date	10-11/05/2021					
Environmental condition	Climate clear			Ambient temp. 33°C		
Monitored by	AESPL Consultancy Division					
Project/ Job number	PO 4600005431; Amd 03 dtd 27.04.21					
Reference of sampling	AESPL/LAB/QR/7.3.3/R-02					
Method of sampling	IS 9989: RA 2014					
Instrument used	Noise meter - Centre C-390 SI:190111462 Noise meter - Centre C-390 SI:190111464					
Calibration status	Calibration details: 25/12/2021 to 24/12/2021					
Location	Day Time (Leq)			Night Time (Leq)		
	Max	Min	Avg	Max	Min	Avg
Project Office (Andheri Sahar)	81.7	51.3	58.3	68.3	50.7	54.9
OWC (Kurla)	83.8	56.3	62.5	85.5	51.9	58.8
Sarvoday Hospital, Ghatkoper	81.3	45.8	55.1	71.6	42.6	47.9
Land side-MLCP (Santacruz)	83.1	62.9	72.3	78.5	57.5	70.0
<b>Limiting Standards as per EPA Schedule II</b>	<b>75 dB(A)</b>			<b>70 dB(A)</b>		

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3. The results apply to the sample as received.



**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/06/103-110

Report Date: 02/07/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
<b>Name of site</b>	:	Mumbai International Airport				
<b>Location</b>	:	Air side				
<b>Monitoring date</b>	:	21,22,23&24/06/2021				
<b>Environmental condition</b>	:	Climate clear	Ambient temp. 29°C			
<b>Monitored by</b>	:	AESPL Consultancy Division				
<b>Project/ Job number</b>	:	PO 4600005431; Amd 03 dtd 27.04.21				
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02				
<b>Method of sampling</b>	:	IS 9989: RA 2014				
<b>Instrument used</b>	:	Noise meter - Centre C-390 SI:190111462 Noise meter - Centre C-390 SI:190111464				
<b>Calibration status</b>	:	Calibration details: 25/12/2021 to 24/12/2021				
Location	Day Time (Leq)			Night Time (Leq)		
	Max	Min	Avg	Max	Min	Avg
Air side Cargo gate 4D	89.5	54.0	73.8	88.9	64.7	74.7
Air side CMD Civil store	88.6	49.9	62.3	71.8	43.8	57.2
Air side Gate No-6 T-2	89.5	59.1	66.3	84.3	56.3	63.7
Air side Runway west 27	90.5	48.8	63.6	78.2	51.5	58.5
Air side STP T-1	92.7	46.9	60.0	89.8	43.8	54.9
Air side Runway 14 end	78.8	53.5	59.3	73.6	45.9	52.2
Air side CCR 2	93.9	57.9	64.6	94.5	62.8	63.9
Air side Lima 8 Apron	81.1	51.8	63.6	79.2	51.8	61.9
<b>Limiting Standards as per EPA Schedule II</b>	<b>75 dB(A)</b>			<b>70 dB(A)</b>		

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3. The results apply to the sample as received.
4. Decision Rule is applied.



**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/06/111-112

Report Date: 02/07/2021

<b>Name of the client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099					
<b>Name of site</b>	: Mumbai International Airport					
<b>Location</b>	: Air side					
<b>Monitoring date</b>	: 24/06/2021					
<b>Environmental condition</b>	: Climate clear			: Ambient temp. 29°C		
<b>Monitored by</b>	: AESPL Consultancy Division					
<b>Project/ Job number</b>	: PO 4600005431; Amd 03 dtd 27.04.21					
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02					
<b>Method of sampling</b>	: IS 9989: RA 2014					
<b>Instrument used</b>	: Noise meter - Centre C-390 SI:190111462 Noise meter - Centre C-390 SI:190111464					
<b>Calibration status</b>	: Calibration details: 25/12/2021 to 24/12/2021					
<b>Location</b>	<b>Day Time (Leq)</b>			<b>Night Time (Leq)</b>		
	<b>Max</b>	<b>Min</b>	<b>Avg</b>	<b>Max</b>	<b>Min</b>	<b>Avg</b>
Project Office (Andheri Sahar)	83.5	61.6	70.0	77.5	63.0	68.8
OWC (Kurla)	85.8	55.1	62.3	80.7	55.4	59.0
<b>Limiting Standards as per EPA Schedule II</b>	<b>75 dB(A)</b>			<b>70 dB(A)</b>		

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3. The results apply to the sample as received.



**Chetan A Kadam**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-





**NOISE LEVEL MEASUREMENT REPORT**

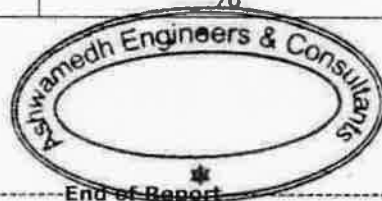
Sample ID: (1) N/07/21/0563 (2) N/07/21/0564 (3) N/07/21/0565 (4) N/07/21/0566 (5) N/07/21/0567 (6) N/07/21/0568 (7) N/07/21/0569 (8) N/07/21/0570 (9) N/07/21/0571 (10) N/07/21/0572	Report No.: (1) N/07/21/0563 (2) N/07/21/0564 (3) N/07/21/0565 (4) N/07/21/0566 (5) N/07/21/0567 (6) N/07/21/0568 (7) N/07/21/0569 (8) N/07/21/0570 (9) N/07/21/0571 (10) N/07/21/0572	Report Date	03/08/2021
Name and Address of Customer		Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099 Maharashtra	
Monitoring Done By	Laboratory	Sample Description/Type	Ambient Noise: (Group: Atmospheric Pollution)
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	28/07/2021 to 29/07/2021
Calibration Certificate	YEA(C)/ 201128A/A1129/001	Instrument Model	SLM 1699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	2016083735

Sr No	Location	Day Time (6 a.m. to 10 p.m.) dB (A)			Night Time (10 p.m. to 6 a.m.) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1.	Runway 27 End	68.0	65.2	71.1	67.1	65.7	68.3	CPCB Protocol for Ambient Level Noise Monitoring, July 2005 AEC/E/SAP/SAM/35 G 36
2.	STP Terminal 1	65.8	64.2	66.8	66.5	65.7	67.8	
3.	CCR-2	66.3	61.4	68.3	65.7	63.3	67.5	
4.	Adani Airport Noise (Apron Control)	68.5	64.5	71.3	64.8	62.1	66.6	
5.	6 No Gate (Sahar)	72.1	63.7	74.8	72.3	70.1	73.9	
6.	Lima 88	68.7	66.6	70.1	69.6	67.1	71.2	
7.	Runway 14 End	68.8	63.3	71.9	61.5	59.7	64.5	
8.	Project Office (Sahar)	65.9	60.9	68.3	63.9	60.3	67.1	
9.	Cargo 4D	70.2	64.4	73.4	69.8	66.6	72.0	
10.	OWC Kurla	67.9	63.3	71.2	65.0	62.6	66.7	

**Limit**  
**As per the Environment (Protection) Rules, 1986, Schedule-I**

Serial Number	Industry	Limits in dB (A) Leq	
		Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
112	Airport (Busy Airports)	70	65

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 Reviewed & Authorised by



End of Report

**Note:**

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4. There are no additions to, deviation or exclusions from the method.



### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/08/21/0349	Report No.: N/08/21/0349	Report Date	31/08/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099 Maharashtra		
Monitoring Done By	Laboratory	Sample Description/Type	Ambient Noise: (Group: Atmospheric Pollution)
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	24/08/2021 to 25/08/2021
Calibration Certificate	YEA(C)/ 201128A/A1129/002	Instrument Model	SLM 1699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	2016083651

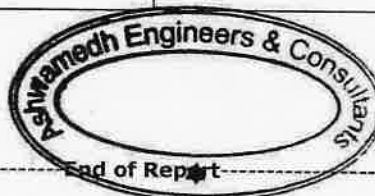
Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	67.0	64.3	68.7	64.1	63.5	65.5	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SAP/SAM/35 & 36
2	STP Terminal 1	65.7	63.7	67.0	64.8	63.5	67.7	
3	CCR-2	66.3	61.19	68.14	64.4	62.7	66.3	
4	Adani Airport Noise (Apron Control)	67.4	64.6	69.6	64.2	61.8	66.2	
5	6 No Gate (Sahar)	69.0	62.7	73.1	63.4	60.9	65.0	
6	Lima 8	67.4	66.2	68.6	64.8	63.1	66.3	
7	Runway 14 End	67.6	64.1	69.6	61.3	59.7	63.4	
8	Project Office (Sahar)	64.9	60.9	68.0	62.9	60.0	65.6	
9	Cargo 4D	68.1	64.7	69.4	64.5	62.5	66.1	
10	OWC Kurla	66.4	61.1	69.3	64.0	62.5	64.8	

#### Limit

#### As Per the Environment (Protection) Rules, 1986, Schedule -I

Serial Number	Industry	Limits in dB (A) weighted scale	
		Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
112	Airport (Busy Airport)	70	65

*HP Sufy*  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



End of Report

#### Note:

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4. There are no additions to, deviation or exclusions from the method.





### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/0556	Report No.: N/09/21/0556	Report Date	01/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099 Maharashtra		
Monitoring Done By	Laboratory	Sample Description/Type	Ambient Noise: (Group: Atmospheric Pollution)
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	27/09/2021 to 28/09/2021
Calibration Certificate	YEA(C)/ 201128A/A1129/002	Instrument Model	SLM 1699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	2016083651

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.6	62.8	69.7	64.3	63.7	65.1	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SAP/SAM/35 & 36
2	STP Terminal 1	65.8	63.9	68.7	64.7	63.1	66.3	
3	CCR-2	66.4	62.4	68.4	64.3	61.5	66.5	
4	Adani Airport Noise (Apron Control)	67.4	64.3	69.8	64.0	62.5	65.4	
5	6 No Gate (Sahar)	68.5	63.5	70.0	63.3	60.3	65.2	
6	Lima 8	67.6	65.0	69.4	64.9	63.1	66.4	
7	Runway 14 End	67.7	65.0	70.0	62.2	60.4	63.2	
8	Project Office (Sahar)	65.5	61.4	68.7	63.6	62.1	65.0	
9	Cargo 4D	67.4	65.0	69.4	64.3	63.2	66.1	
10	OWC Kurla	65.8	61.2	68.7	64.5	63.2	65.1	

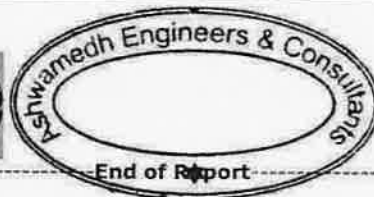
#### Limit

#### As Per the Environment (Protection) Rules, 1986, Schedule -I

Serial Number	Industry	Limits in dB (A) weighted scale	
		Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
112	Airport (Busy Airport)	70	65

*Bhewale*

Kavita Shewale  
Section In-charge (Chemical)  
Reviewed & Authorised by



#### Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.
- In case sampling is not done by laboratory, the results apply to the sample as received.
- There are no additions to, deviation or exclusions from the method.





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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/93

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099
Name of site	:	Mumbai International Airport
Date of sampling	:	17/02/2021
Date of receipt	:	19/02/2021
Date of analysis	:	19/02/2021
Monitored by	:	AESPL Consultancy Division
Project/ Job number	:	PO 4600005431 dt 26.05.2020
Reference of sampling	:	AESPL/LAB/F/G-31
Method of sampling	:	AESPL/LAB/SOP/ST-01

#### Stack Details

Stack identification	:	DG 1 Alfa 1(1010 KVA)
Fuel used	:	HSD
Stack diameter (m)	:	0.20
Cross-sectional area (m <sup>2</sup> )	:	0.031
Stack height (m)	:	30

#### Method of analysis and Equipment details

Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method
Sampling equipment	:	PEM SMK Sr. No-4519
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021

#### Emission Details

Parameter	Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	134	--
Gas Velocity (m/sec)	9.68	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	801.36	--
Particulate Matter(mg/Nm <sup>3</sup> )	54.9	150
Sulphur Dioxide (Kg/Day)	0.86	
NOx (ppm)	13.5	100

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Chetan A Kadam

(Authorized Signatory - Pollution & Environment)

-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/94

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 2 Alfa 1 (625 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	144	--
Gas Velocity (m/sec)	:	8.88	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	717.02	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	57.5	150
Sulphur Dioxide (Kg/Day)	:	0.77	
NOx (ppm)	:	15.6	100

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-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/95

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 3 Alfa 1 (1010 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	131	--
Gas Velocity (m/sec)	:	9.25	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	771.46	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	49.8	150
Sulphur Dioxide (Kg/Day)	:	0.95	
NOx (ppm)	:	11.4	100

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-End of Test Report-



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### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/96

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 4 Alfa 1 (2500 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	154	--
Gas Velocity (m/sec)	:	10.67	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	841.50	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	53.5	150
Sulphur Dioxide (Kg/Day)	:	0.91	
NOx (ppm)	:	12.5	100

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-End of Test Report-



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### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/97

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 1 CCR 1 (750 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	113	--
Gas Velocity (m/sec)	:	10.38	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	906.06	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	51.0	150
Sulphur Dioxide (Kg/Day)	:	0.84	
NOx (ppm)	:	16.6	100

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-End of Test Report-





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### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/97

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 2 CCR 1 (750 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	117	--
Gas Velocity (m/sec)	:	10.44	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	901.40	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	48.7	150
Sulphur Dioxide (Kg/Day)	:	0.83	
NOx (ppm)	:	12.5	100

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-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/99

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	17/02/2021	
Date of receipt	:	19/02/2021	
Date of analysis	:	19/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 1 CCR 2 (500 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.20	
Cross-sectional area (m <sup>2</sup> )	:	0.031	
Stack height (m)	:	30	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	119	--
Gas Velocity (m/sec)	:	9.99	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	858.82	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	53.5	150
Sulphur Dioxide (Kg/Day)	:	0.79	
NOx (ppm)	:	14.5	100

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-End of Test Report-



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**Laboratory:** P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
**Tel:** 02192 252008, **CIN:** U74999MH2001PTC132091

**Stack Emission Quality Test Report****Ref. No:** AESPL/LAB/ST-21/02/100**Report Date:** 27/02/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Date of sampling</b>	:	17/02/2021	
<b>Date of receipt</b>	:	19/02/2021	
<b>Date of analysis</b>	:	19/02/2021	
<b>Monitored by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 dt 26.05.2020	
<b>Reference of sampling</b>	:	AESPL/LAB/F/G-31	
<b>Method of sampling</b>	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
<b>Stack identification</b>	:	DG 2 CCR 2 (625 KVA)	
<b>Fuel used</b>	:	HSD	
<b>Stack diameter (m)</b>	:	0.20	
<b>Cross-sectional area (m<sup>2</sup>)</b>	:	0.031	
<b>Stack height (m)</b>	:	30	
<b>Method of analysis and Equipment details</b>			
<b>Method of analysis</b>	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
<b>Sampling equipment</b>	:	PEM SMK Sr. No-4519	
<b>Calibration status</b>	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
<b>Parameter</b>		<b>Result of analysis</b>	<b>Limiting Standard as per consent</b>
Gas Temperature (°C)	:	139	--
Gas Velocity (m/sec)	:	8.95	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	732.06	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	44.1	150
Sulphur Dioxide (Kg/Day)	:	0.68	
NOx (ppm)	:	11.4	100

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-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/102

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG-1 Utility T-2 (3000 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.50	
Cross-sectional area (m <sup>2</sup> )	:	0.196	
Stack height (m)	:	31	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	145	--
Gas Velocity (m/sec)	:	14.26	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	7180.81	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	49.9	150
Sulphur Dioxide (Kg/Day)	:	3.32	
NOx (ppm)	:	15.6	100

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-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/103

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG-2 Utility T-2 (3000 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.50	
Cross-sectional area (m <sup>2</sup> )	:	0.196	
Stack height (m)	:	31	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	147	--
Gas Velocity (m/sec)	:	13.77	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	6903.93	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	46.5	150
Sulphur Dioxide (Kg/Day)	:	3.19	
NOx (ppm)	:	13.5	100

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Chetan A Kadam

(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**  
Recognized by **MoEFCC** as "Environmental Laboratory" valid up to 08.07.2021  
**Laboratory:** P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Stack Emission Quality Test Report**

Ref. No: AESPL/LAB/ST-21/02/104

Report Date: 27/02/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Date of sampling</b>	:	18/02/2021	
<b>Date of receipt</b>	:	20/02/2021	
<b>Date of analysis</b>	:	20/02/2021	
<b>Monitored by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 dt 26.05.2020	
<b>Reference of sampling</b>	:	AESPL/LAB/F/G-31	
<b>Method of sampling</b>	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
<b>Stack identification</b>	:	DG-3 Utility T-2 (3000 KVA)	
<b>Fuel used</b>	:	HSD	
<b>Stack diameter (m)</b>	:	0.50	
<b>Cross-sectional area (m<sup>2</sup>)</b>	:	0.196	
<b>Stack height (m)</b>	:	31	
<b>Method of analysis and Equipment details</b>			
<b>Method of analysis</b>	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
<b>Sampling equipment</b>	:	PEM SMK Sr. No-4519	
<b>Calibration status</b>	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
<b>Parameter</b>		<b>Result of analysis</b>	<b>Limiting Standard as per consent</b>
Gas Temperature (°C)	:	146	--
Gas Velocity (m/sec)	:	14.19	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	7130.48	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	42.4	150
Sulphur Dioxide (Kg/Day)	:	4.39	
NOx (ppm)	:	15.6	100

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-End of Test Report-



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/105

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG-4 Utility T-2 (3000 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.50	
Cross-sectional area (m <sup>2</sup> )	:	0.196	
Stack height (m)	:	31	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	145	--
Gas Velocity (m/sec)	:	14.16	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	7133.41	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	48.0	150
Sulphur Dioxide (Kg/Day)	:	4.39	
NOx (ppm)	:	13.5	100

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-End of Test Report-



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/108

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099
Name of site	:	Mumbai International Airport
Date of sampling	:	18/02/2021
Date of receipt	:	20/02/2021
Date of analysis	:	20/02/2021
Monitored by	:	AESPL Consultancy Division
Project/ Job number	:	PO 4600005431 dt 26.05.2020
Reference of sampling	:	AESPL/LAB/F/G-31
Method of sampling	:	AESPL/LAB/SOP/ST-01

#### Stack Details

Stack identification	:	DG 1 Inteck power House Cargo 500 KVA
Fuel used	:	HSD
Stack diameter (m)	:	0.30
Cross-sectional area (m <sup>2</sup> )	:	0.071
Stack height (m)	:	10

#### Method of analysis and Equipment details

Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method
Sampling equipment	:	PEM SMK Sr. No-4519
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021

#### Emission Details

Parameter	Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	144	--
Gas Velocity (m/sec)	14.61	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	2655.43	--
Particulate Matter(mg/Nm <sup>3</sup> )	49.5	150
Sulphur Dioxide (Kg/Day)	2.04	
NOx (ppm)	14.5	100

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-End of Test Report-

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Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Stack Emission Quality Test Report**

Ref. No: AESPL/LAB/ST-21/02/106

Report Date: 27/02/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Date of sampling</b>	:	18/02/2021	
<b>Date of receipt</b>	:	20/02/2021	
<b>Date of analysis</b>	:	20/02/2021	
<b>Monitored by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 dt 26.05.2020	
<b>Reference of sampling</b>	:	AESPL/LAB/F/G-31	
<b>Method of sampling</b>	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
<b>Stack identification</b>	:	DG-5 Utility T-2 (3000 KVA)	
<b>Fuel used</b>	:	HSD	
<b>Stack diameter (m)</b>	:	0.50	
<b>Cross-sectional area (m<sup>2</sup>)</b>	:	0.196	
<b>Stack height (m)</b>	:	31	
<b>Method of analysis and Equipment details</b>			
<b>Method of analysis</b>	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
<b>Sampling equipment</b>	:	PEM SMK Sr. No-4519	
<b>Calibration status</b>	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
<b>Parameter</b>		<b>Result of analysis</b>	<b>Limiting Standard as per consent</b>
Gas Temperature (°C)	:	146	--
Gas Velocity (m/sec)	:	14.32	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	7194.40	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	44.1	150
Sulphur Dioxide (Kg/Day)	:	4.43	
NOx (ppm)	:	15.6	100

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-End of Test Report-





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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/107

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG-6 Utility T-2 (3000 KVA)	
Fuel used	:	HSD	
Stack diameter (m)	:	0.50	
Cross-sectional area (m <sup>2</sup> )	:	0.196	
Stack height (m)	:	31	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	147	--
Gas Velocity (m/sec)	:	14.64	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	7336.27	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	46.6	150
Sulphur Dioxide (Kg/Day)	:	4.52	
NOx (ppm)	:	12.5	100

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-End of Test Report-



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Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/111

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG Import cold zone Cargo 500 KVA	
Fuel used	:	HSD	
Stack diameter (m)	:	0.30	
Cross-sectional area (m <sup>2</sup> )	:	0.071	
Stack height (m)	:	10	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	143	--
Gas Velocity (m/sec)	:	14.35	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2614.26	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	46.1	150
Sulphur Dioxide (Kg/Day)	:	1.61	
NOx (ppm)	:	12.5	100

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-End of Test Report-



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/112

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 2 Import warehouse 62.5 KVA	
Fuel used	:	HSD	
Stack diameter (m)	:	0.30	
Cross-sectional area (m <sup>2</sup> )	:	0.071	
Stack height (m)	:	10	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	145	--
Gas Velocity (m/sec)	:	14.26	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2585.09	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	47.3	150
Sulphur Dioxide (Kg/Day)	:	1.59	
NOx (ppm)	:	10.4	100

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-End of Test Report-



## ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

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Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/109

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 2 Inteck power House Cargo 437 KVA	
Fuel used	:	HSD	
Stack diameter (m)	:	0.30	
Cross-sectional area (m <sup>2</sup> )	:	0.071	
Stack height (m)	:	10	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	142	--
Gas Velocity (m/sec)	:	14.00	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2557.00	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	45.1	150
Sulphur Dioxide (Kg/Day)	:	1.97	
NOx (ppm)	:	11.4	100

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-End of Test Report-



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### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/110

Report Date: 27/02/2021

<b>Name of the client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Date of sampling</b>	:	18/02/2021	
<b>Date of receipt</b>	:	20/02/2021	
<b>Date of analysis</b>	:	20/02/2021	
<b>Monitored by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 dt 26.05.2020	
<b>Reference of sampling</b>	:	AESPL/LAB/F/G-31	
<b>Method of sampling</b>	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
<b>Stack identification</b>	:	DG 3 Inteck power House Cargo 625 KVA	
<b>Fuel used</b>	:	HSD	
<b>Stack diameter (m)</b>	:	0.30	
<b>Cross-sectional area (m<sup>2</sup>)</b>	:	0.071	
<b>Stack height (m)</b>	:	10	
<b>Method of analysis and Equipment details</b>			
<b>Method of analysis</b>	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
<b>Sampling equipment</b>	:	PEM SMK Sr. No-4519	
<b>Calibration status</b>	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
<b>Parameter</b>		<b>Result of analysis</b>	<b>Limiting Standard as per consent</b>
Gas Temperature (°C)	:	140	--
Gas Velocity (m/sec)	:	14.27	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2618.75	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	47.5	150
Sulphur Dioxide (Kg/Day)	:	2.02	
NOx (ppm)	:	15.6	100

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-End of Test Report-

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Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Stack Emission Quality Test Report**

Ref. No: AESPL/LAB/ST-21/02/113

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG 3 Import warehouse 125 KVA	
Fuel used	:	HSD	
Stack diameter (m)	:	0.30	
Cross-sectional area (m <sup>2</sup> )	:	0.071	
Stack height (m)	:	10	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	145	--
Gas Velocity (m/sec)	:	14.53	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2634.64	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	45.1	150
Sulphur Dioxide (Kg/Day)	:	1.62	
NOx (ppm)	:	13.5	100

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-End of Test Report-



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/114

Report Date: 27/02/2021

Name of the client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Date of sampling	:	19/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	:	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.2020	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
<b>Stack Details</b>			
Stack identification	:	DG GA Terminal 125 KVA	
Fuel used	:	HSD	
Stack diameter (m)	:	0.30	
Cross-sectional area (m <sup>2</sup> )	:	0.071	
Stack height (m)	:	10	
<b>Method of analysis and Equipment details</b>			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021	
<b>Emission Details</b>			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	:	93	--
Gas Velocity (m/sec)	:	12.79	--
Gas Flow Rate (Nm <sup>3</sup> /hr)	:	2648.00	--
Particulate Matter(mg/Nm <sup>3</sup> )	:	42.4	150
Sulphur Dioxide (Kg/Day)	:	2.04	
NOx (ppm)	:	15.6	100

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory
2. Results relate only to the items tested
3. Above test parameter is presently not covered under NABL scope



Chetan A Kadam

(Authorized Signatory - Pollution & Environment)

-End of Test Report-





# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/04/107

Issue Date: 29/04/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Nature of sample	:	Sewage Water	
Location of sample	:	STP Inlet -Terminal 2	
Sample identification number	:	W- 21/04/107	
Sample Quantity & Container	:	F - 1 l; PE	
Environmental Condition	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C	
Date of sample drawn	:	21/04/2021	
Date of sample receipt	:	22/04/2021	
Date of sample analysis	:	22/04/2021 - 27/04/2021	
Sample drawn by	:	AESPL Consultancy Division	
Sample transported by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 Dated 26/05/2020	
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02	
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01	
Sr. No.	Parameter	Result	Method of analysis
1.	pH@25°C	7.42	APHA-2017(4500H+-B)
2.	SS, mg/l	74	APHA-2017(2540-D)
3.	COD, mg/l	200	APHA-2017(5220-B)
4.	BOD, mg/l	75	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	APHA-2017(5520-B)

BOD-@ 27°C for 3 days

### Note:

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/04/108

Issue Date: 29/04/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099		
Name of site	:	Mumbai International Airport		
Nature of sample	:	Sewage Water		
Location of sample	:	STP Outlet -Terminal 2-RO Outlet		
Sample identification number	:	W- 21/04/108		
Sample Quantity & Container	:	F -1 l; PE		
Environmental Condition	:	Area: Clean Water Temp.: 26°C Amb. Temp: 31°C		
Date of sample drawn	:	21/04/2021		
Date of sample receipt	:	22/04/2021		
Date of sample analysis	:	22/04/2021 - 27/04/2021		
Sample drawn by	:	AESPL Consultancy Division		
Sample transported by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 Dated 26/05/2020		
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02		
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01		
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.52	6.5 to 9.0	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	10	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	8.0	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.64	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	APHA-2017(5520-B)

BOD-@ 27°C for 3 days

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCB w.r.t. above mentioned tests.**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



Reshma S. Patil  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

## Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/04/109

Issue Date: 29/04/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
Name of site	:	Mumbai International Airport	
Nature of sample	:	Sewage Water	
Location of sample	:	STP Inlet -Cargo	
Sample identification number	:	W- 21/04/109	
Sample Quantity & Container	:	F -1 l; PE	
Environmental Condition	:	Area: Clean Water Temp.: 26°C Amb. Temp: 31°C	
Date of sample drawn	:	21/04/2021	
Date of sample receipt	:	22/04/2021	
Date of sample analysis	:	22/04/2021 - 27/04/2021	
Sample drawn by	:	AESPL Consultancy Division	
Sample transported by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 Dated 26/05/2020	
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02	
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01	
Sr. No.	Parameter	Result	Method of analysis
1.	pH@25°C	7.50	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	68	APHA-2017(2540-D)
3.	COD, mg/l	100	APHA-2017(5220-B)
4.	BOD, mg/l	55	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.64	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	APHA-2017(5520-B)

BOD-@ 27°C for 3 days

**Note:**

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3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



**Reshma S. Patil**  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-

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Tel: 02192 252008, CIN: U74999MH2001PTC132091

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/04/110

Issue Date: 29/04/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099		
Name of site	:	Mumbai International Airport		
Nature of sample	:	Sewage Water		
Location of sample	:	STP Outlet -Cargo		
Sample identification number	:	W- 21/04/110		
Sample Quantity & Container	:	F -1 l; PE		
Environmental Condition	:	Area: Clean Water Temp.: 25°C Amb. Temp: 31°C		
Date of sample drawn	:	21/04/2021		
Date of sample receipt	:	22/04/2021		
Date of sample analysis	:	22/04/2021 - 27/04/2021		
Sample drawn by	:	AESPL Consultancy Division		
Sample transported by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 Dated 26/05/2020		
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02		
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01		
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.40	6.5 to 9.0	APHA-2017(4500H+-B)
2.	SS, mg/l	22	< 50	APHA-2017(2540-D)
3.	COD, mg/l	60	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	22	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	APHA-2017(5520-B)

**BOD-@ 27°C for 3 days****Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.**Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution &amp; Environment)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

## Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/M-21/05/80

Issue Date: 20/05/2021

Name of client	:	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E), Mumbai - 400099	
Name of site	:	Santacruz (E)	
Nature of sample	:	STP	
Location of sample	:	Cargo - Inlet	
Sample identification number	:	M-21/05/80	
Sample Quantity & Container	:	100 ml; PG	
Environmental Condition	:	Water is turbid	Ambient temperature: 31°C
Date of sample collection	:	12/05/2021	
Date of sample receipt	:	13/05/2021	
Date of sample analysis	:	14/05/2021 - 17/05/2021	
Sample drawn by	:	AESPL Consultancy Division	
Sample transported by	:	AESPL Consultancy Division	
Project/ Job number	:	4600005431; Amd 03 dtd 27.04.21	
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling & preservation	:	AESPL/LAB/SOP/M-01	
Sr. No.	Parameter	Result	Method of analysis
1	Fecal Coliforms MPN/100ml	>1600	APHA- 23 <sup>rd</sup> edition 2017 (9221E-2)

### Note:

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3. The results apply to the sample as received.



**Pranali N. Patil**  
(Authorized Signatory - Microbiology)

--End of Test Report--

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/05/54

Issue Date: 20/05/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Nature of sample</b>	:	Sewage Water	
<b>Location of sample</b>	:	STP Inlet -Terminal 2	
<b>Sample identification number</b>	:	W- 21/05/54	
<b>Sample Quantity &amp; Container</b>	:	F -1 l; PE	
<b>Environmental Condition</b>	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C	
<b>Date of sample drawn</b>	:	12/05/2021	
<b>Date of sample receipt</b>	:	13/05/2021	
<b>Date of sample analysis</b>	:	13/05/2021 - 18/05/2021	
<b>Sample drawn by</b>	:	AESPL Consultancy Division	
<b>Sample transported by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 Dated 26/05/2020	
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02	
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01	
<b>Sr. No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Method of analysis</b>
1.	pH@25°C	7.30	APHA-2017(4500H+-B)
2.	SS, mg/l	68	APHA-2017(2540-D)
3.	COD, mg/l	250	APHA-2017(5220-B)
4.	BOD, mg/l	85	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.66	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	IS-3025 (Part 39) RA2019

**BOD-@ 27°C for 3 days****Note:**

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3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



**Reshma S. Patil**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/05/55

Issue Date: 20/05/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099			
<b>Name of site</b>	: Mumbai International Airport			
<b>Nature of sample</b>	: Sewage Water			
<b>Location of sample</b>	: STP Outlet -Terminal 2-RO Outlet			
<b>Sample identification number</b>	: W- 21/05/55			
<b>Sample Quantity &amp; Container</b>	: F -1 l; PE			
<b>Environmental Condition</b>	: <b>Area: Clean Water Temp.: 26°C Amb. Temp: 31°C</b>			
<b>Date of sample drawn</b>	: 12/05/2021			
<b>Date of sample receipt</b>	: 13/05/2021			
<b>Date of sample analysis</b>	: 13/05/2021 - 18/05/2021			
<b>Sample drawn by</b>	: AESPL Consultancy Division			
<b>Sample transported by</b>	: AESPL Consultancy Division			
<b>Project/ Job number</b>	: PO 4600005431 Dated 26/05/2020			
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02			
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/W-01			
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	6.93	6.5 to 9.0	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	22	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	8.0	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.62	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

BOD-@ 27°C for 3 days

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



**Reshma S. Patil**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/05/56

Issue Date: 20/05/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099
<b>Name of site</b>	:	Mumbai International Airport
<b>Nature of sample</b>	:	Sewage Water
<b>Location of sample</b>	:	STP Inlet -Cargo
<b>Sample identification number</b>	:	W- 21/05/56
<b>Sample Quantity &amp; Container</b>	:	F -1 l; PE
<b>Environmental Condition</b>	:	<b>Area: Clean Water Temp.: 26°C Amb. Temp: 31°C</b>
<b>Date of sample drawn</b>	:	12/05/2021
<b>Date of sample receipt</b>	:	13/05/2021
<b>Date of sample analysis</b>	:	13/05/2021 - 18/05/2021
<b>Sample drawn by</b>	:	AESPL Consultancy Division
<b>Sample transported by</b>	:	AESPL Consultancy Division
<b>Project/ Job number</b>	:	PO 4600005431 Dated 26/05/2020
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01

Sr. No.	Parameter	Result	Method of analysis
1.	pH@25°C	7.32	APHA-2017(4500H+-B)
2.	SS, mg/l	74	APHA-2017(2540-D)
3.	COD, mg/l	160	APHA-2017(5220-B)
4.	BOD, mg/l	65	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.65	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	APHA-2017(5520-B)

**BOD-@ 27°C for 3 days****Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



**Reshma S. Patil**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



## ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021  
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
Tel: 02192 252008, CIN: U74999MH2001PTC132091

### Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/05/57

Issue Date: 20/05/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099		
Name of site	:	Mumbai International Airport		
Nature of sample	:	Sewage Water		
Location of sample	:	STP Outlet -Cargo		
Sample identification number	:	W- 21/05/57		
Sample Quantity & Container	:	F -1 l; PE		
Environmental Condition	:	Area: Clean Water Temp.: 25°C Amb. Temp: 31°C		
Date of sample drawn	:	12/05/2021		
Date of sample receipt	:	13/05/2021		
Date of sample analysis	:	13/05/2021 - 18/05/2021		
Sample drawn by	:	AESPL Consultancy Division		
Sample transported by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 Dated 26/05/2020		
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02		
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01		
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.09	6.5 to 9.0	APHA-2017(4500H+-B)
2.	SS, mg/l	20	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	7.6	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	< 1.0	APHA-2017(4500CI-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

BOD-@ 27°C for 3 days

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



Reshma S. Patil  
(Authorized Signatory - Pollution & Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
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Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/05/83

Issue Date: 26/05/2021

Name of Client	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099
Name of site	:	Mumbai International Airport
Nature of sample	:	Sewage Water
Location of sample	:	STP Inlet -Terminal 1
Sample identification number	:	W- 21/05/83
Sample Quantity & Container	:	F -1 l; PE
Environmental Condition	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C
Date of sample drawn	:	19/05/2021
Date of sample receipt	:	20/05/2021
Date of sample analysis	:	20/05/2021 - 25/05/2021
Sample drawn by	:	AESPL Consultancy Division
Sample transported by	:	AESPL Consultancy Division
Project/ Job number	:	PO 4600005431 Dated 26/05/2020
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01

Sr. No.	Parameter	Result	Method of analysis
1.	pH@25°C	6.88	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	54	APHA-2017(2540-D)
3.	COD, mg/l	150	APHA-2017(5220-B)
4.	BOD, mg/l	65	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.66	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	IS-3025 (Part 39) RA2019

**BOD-@ 27°C for 3 days****Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory - Pollution &amp; Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/05/84

Issue Date: 26/05/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099
<b>Name of site</b>	:	Mumbai International Airport
<b>Nature of sample</b>	:	Sewage Water
<b>Location of sample</b>	:	STP Outlet -Terminal 1-RO Outlet
<b>Sample identification number</b>	:	W- 21/05/84
<b>Sample Quantity &amp; Container</b>	:	F -1 l; PE
<b>Environmental Condition</b>	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C
<b>Date of sample drawn</b>	:	19/05/2021
<b>Date of sample receipt</b>	:	20/05/2021
<b>Date of sample analysis</b>	:	20/05/2021 - 25/05/2021
<b>Sample drawn by</b>	:	AESPL Consultancy Division
<b>Sample transported by</b>	:	AESPL Consultancy Division
<b>Project/ Job number</b>	:	PO 4600005431 Dated 26/05/2020
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01

Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.06	6.5 to 9.0	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	14	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	6.8	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.66	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

**BOD-@ 27°C for 3 days****Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t above mentioned tests.**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.

**Reshma S. Patil****(Authorized Signatory - Pollution & Environment)**

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/200

Issue Date: 04/07/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Nature of sample</b>	:	Sewage Water	
<b>Location of sample</b>	:	STP Inlet -Terminal 1	
<b>Sample identification number</b>	:	W- 21/06/200	
<b>Sample Quantity &amp; Container</b>	:	F -1 l; PE	
<b>Environmental Condition</b>	:	<b>Area: Clean Water Temp.: 27°C Amb. Temp: 31°C</b>	
<b>Date of sample drawn</b>	:	23/06/2021	
<b>Date of sample receipt</b>	:	26/06/2021	
<b>Date of sample analysis</b>	:	26/06/2021 - 02/07/2021	
<b>Sample drawn by</b>	:	AESPL Consultancy Division	
<b>Sample transported by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 Amd 03 Dated 27.04.2021	
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02	
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01	
Sr. No.	Parameter	Result	Method of analysis
1.	pH@25°C	6.80	APHA-2017(4500H*-B)
2.	SS, mg/l	62	APHA-2017(2540-D)
3.	COD, mg/l	180	APHA-2017(5220-B)
4.	BOD-@ 27°C for 3 days, mg/l	90	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	IS-3025 (Part 39) RA2019

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory - Pollution &amp; Environment)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/201

Issue Date: 04/07/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099			
<b>Name of site</b>	: Mumbai International Airport			
<b>Nature of sample</b>	: Sewage Water			
<b>Location of sample</b>	: STP Outlet -Terminal 1-RO Outlet			
<b>Sample identification number</b>	: W- 21/06/201			
<b>Sample Quantity &amp; Container</b>	: F -1 l; PE			
<b>Environmental Condition</b>	: <b>Area: Clean Water Temp.: 27°C Amb. Temp: 31°C</b>			
<b>Date of sample drawn</b>	: 23/06/2021			
<b>Date of sample receipt</b>	: 26/06/2021			
<b>Date of sample analysis</b>	: 26/06/2021 - 02/07/2021			
<b>Sample drawn by</b>	: AESPL Consultancy Division			
<b>Sample transported by</b>	: AESPL Consultancy Division			
<b>Project/ Job number</b>	: PO 4600005431 Amd 03 Dated 27.04.2021			
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02			
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/W-01			
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	6.89	6.5 to 9.0	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	12	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD-@ 27°C for 3 days, mg/l	6.0	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.62	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

**Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



**Reshma S. Patil**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-



**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/204

Issue Date: 04/07/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Nature of sample</b>	:	Sewage Water	
<b>Location of sample</b>	:	STP Inlet -Terminal 2	
<b>Sample identification number</b>	:	W- 21/06/204	
<b>Sample Quantity &amp; Container</b>	:	F - 1 l; PE	
<b>Environmental Condition</b>	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C	
<b>Date of sample drawn</b>	:	26/06/2021	
<b>Date of sample receipt</b>	:	26/06/2021	
<b>Date of sample analysis</b>	:	26/06/2021 - 02/07/2021	
<b>Sample drawn by</b>	:	AESPL Consultancy Division	
<b>Sample transported by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 Amd 03 Dated 27.04.2021	
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02	
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01	
<b>Sr. No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Method of analysis</b>
1.	pH@25°C	7.24	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	62	APHA-2017(2540-D)
3.	COD, mg/l	200	APHA-2017(5220-B)
4.	BOD @ 27°C for 3 days, mg/l	95	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.60	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	IS-3025 (Part 39) RA2019

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory – Pollution &amp; Environment)

-End of Test Report-



**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/205

Issue Date: 04/07/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099			
<b>Name of site</b>	: Mumbai International Airport			
<b>Nature of sample</b>	: Sewage Water			
<b>Location of sample</b>	: STP Outlet -Terminal 2-RO Outlet			
<b>Sample identification number</b>	: W- 21/06/205			
<b>Sample Quantity &amp; Container</b>	: F -1 l; PE			
<b>Environmental Condition</b>	: Area: Clean Water Temp.: 26°C Amb. Temp: 31°C			
<b>Date of sample drawn</b>	: 26/06/2021			
<b>Date of sample receipt</b>	: 26/06/2021			
<b>Date of sample analysis</b>	: 26/06/2021 - 02/07/2021			
<b>Sample drawn by</b>	: AESPL Consultancy Division			
<b>Sample transported by</b>	: AESPL Consultancy Division			
<b>Project/ Job number</b>	: PO 4600005431 Amd 03 Dated 27.04.2021			
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02			
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/W-01			
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	6.88	6.5 to 9.0	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	12	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	BOD@ 27°C for 3 days, mg/l	6.2	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.64	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

**Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.

**Reshma S. Patil****(Authorized Signatory - Pollution & Environment)**

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**  
 Recognized by **MoEFCC** as "Environmental Laboratory" valid up to 24.04.2024  
**Laboratory:** P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/206

Issue Date: 04/07/2021

<b>Name of Client</b>	:	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099	
<b>Name of site</b>	:	Mumbai International Airport	
<b>Nature of sample</b>	:	Sewage Water	
<b>Location of sample</b>	:	STP Inlet -Cargo	
<b>Sample identification number</b>	:	W- 21/06/206	
<b>Sample Quantity &amp; Container</b>	:	F -1 l; PE	
<b>Environmental Condition</b>	:	<b>Area: Clean Water Temp.: 26°C Amb. Temp: 31°C</b>	
<b>Date of sample drawn</b>	:	26/06/2021	
<b>Date of sample receipt</b>	:	26/06/2021	
<b>Date of sample analysis</b>	:	26/06/2021 - 02/07/2021	
<b>Sample drawn by</b>	:	AESPL Consultancy Division	
<b>Sample transported by</b>	:	AESPL Consultancy Division	
<b>Project/ Job number</b>	:	PO 4600005431 Amd 03 Dated 27.04.2021	
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02	
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/W-01	
<b>Sr. No.</b>	<b>Parameter</b>	<b>Result</b>	<b>Method of analysis</b>
1.	pH@25°C	7.38	APHA-2017(4500H <sup>+</sup> -B)
2.	SS, mg/l	112	APHA-2017(2540-D)
3.	COD, mg/l	220	APHA-2017(5220-B)
4.	BOD@ 27°C for 3 days,	95	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.60	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	APHA-2017(5520-B)

**Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.



**Reshma S. Patil**  
**(Authorized Signatory - Pollution & Environment)**

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207  
 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

**Sewage Water Quality Test Report**

Ref. No.: AESPL/LAB/W-21/06/207

Issue Date: 04/07/2021

<b>Name of Client</b>	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai - 400099			
<b>Name of site</b>	: Mumbai International Airport			
<b>Nature of sample</b>	: Sewage Water			
<b>Location of sample</b>	: STP Outlet -Cargo			
<b>Sample identification number</b>	: W- 21/06/207			
<b>Sample Quantity &amp; Container</b>	: F -1 l; PE			
<b>Environmental Condition</b>	: Area: Clean Water Temp.: 25°C Amb. Temp: 31°C			
<b>Date of sample drawn</b>	: 26/06/2021			
<b>Date of sample receipt</b>	: 26/06/2021			
<b>Date of sample analysis</b>	: 26/06/2021 - 02/07/2021			
<b>Sample drawn by</b>	: AESPL Consultancy Division			
<b>Sample transported by</b>	: AESPL Consultancy Division			
<b>Project/ Job number</b>	: PO 4600005431 Amd 03 Dated 27.04.2021			
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02			
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/W-01			
Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.12	6.5 to 9.0	APHA-2017(4500H+-B)
2.	SS, mg/l	28	< 50	APHA-2017(2540-D)
3.	COD, mg/l	30	< 100	APHA-2017(5220-B)
4.	BOD@ 27°C for 3 days, mg/l	15	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0	--	IS-3025 (Part 39) RA2019

**Conformity Statement:** Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. The results apply to the sample as received.
5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution &amp; Environment)

-End of Test Report-



TC-5509



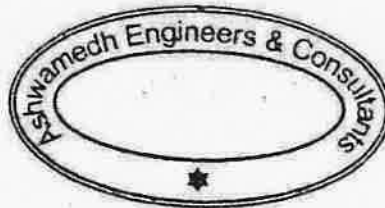
## TEST REPORT

Sample ID: E/07/21/0330	Report No.: E/07/21/0330	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	<b>7.32</b>	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>60</b>	mg/L	IS 3025 (Part I):1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>26</b>	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>120</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>&lt;0.05</b>	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

*(Signature)*

Ninad Soundankar  
 Technical Manager (Chemical)  
 Reviewed & Authorised by



-----End of Report-----

**Note:**

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviation or exclusions from the method.





TC-5509



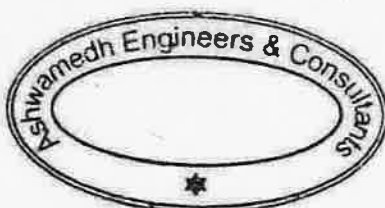
## TEST REPORT

Sample ID: E/07/21/0331	Report No.: E/07/21/0331	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Outlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	<b>6.75</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>22</b>	50	mg/L	IS 3025 (Part I): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>20</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>0.14</b>	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63



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TC-5509



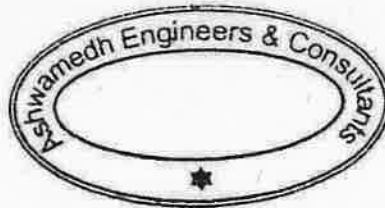
## TEST REPORT

Sample ID: E/07/21/0332	Report No.: E/07/21/0332	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	<b>6.84</b>	-	IS 3025 (Part 11):1983, RA 2017
2.	Total Suspended Solids	<b>56</b>	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>58</b>	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>210</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>&lt;0.05</b>	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

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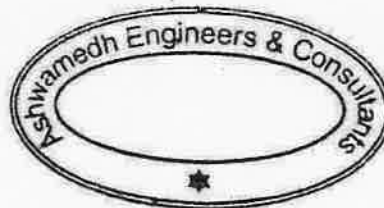
## TEST REPORT

Sample ID: E/07/21/0333	Report No.: E/07/21/0333	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	<b>7.67</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>8</b>	50	mg/L	IS 3025 (Part I):1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	30	mg/L	IS 3025 (Part 44):1993, RA 2014
4.	Chemical Oxygen Demand	<b>10</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>0.12</b>	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-CI-B, 4-63



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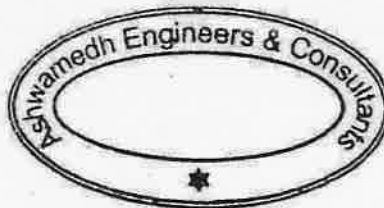
## TEST REPORT

Sample ID: E/07/21/0334	Report No.: E/07/21/0334	Report Date	04/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	7	-	IS 3025 (Part 11):1983, RA 2017
2.	Total Suspended Solids	63	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	75	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	260	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<0.05	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63



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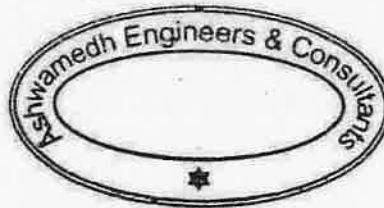
## TEST REPORT

Sample ID: E/07/21/0335	Report No.: E/07/21/0335	Report Date	04/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	<b>7.68</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>8</b>	50	mg/L	IS 3025 (Part I):1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	30	mg/L	IS 3025 (Part 44):1993, RA 2014
4.	Chemical Oxygen Demand	<b>10</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>0.12</b>	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

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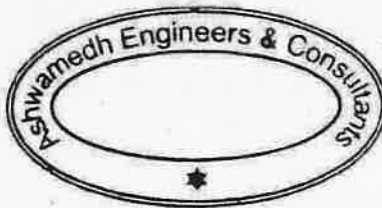
## TEST REPORT

Sample ID: E/08/21/0296	Report No.: E/08/21/0296	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	7	-	IS 3025 (Part 1):1983, RA 2017
2.	Total Suspended Solids	68	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	324	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	1000	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<0.05	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

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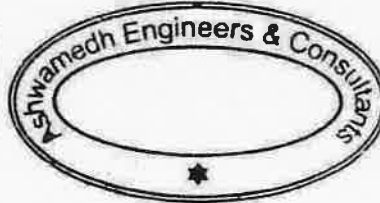
## TEST REPORT

Sample ID: E/08/21/0297	Report No.: E/08/21/0297	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Outlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	7.46	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	6	50	mg/L	IS 3025 (Part I7): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<0.05	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-CI-B, 4-63

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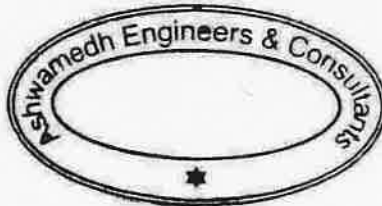


## TEST REPORT

Sample ID: E/08/21/0298	Report No.: E/08/21/0298	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	7	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	42	mg/L	IS 3025 (Part I):1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	30	mg/L	IS 3025 (Part 44):1993, RA 2014
4.	Chemical Oxygen Demand	110	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<0.05	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

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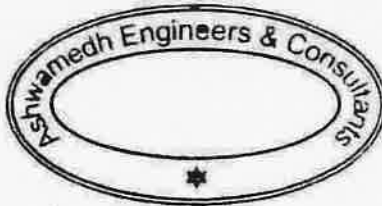


## TEST REPORT

Sample ID: E/08/21/0299	Report No.: E/08/21/0299	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	<b>7.47</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>6</b>	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>10</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>&lt;0.05</b>	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

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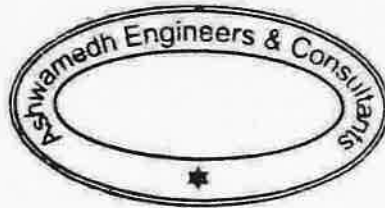


## TEST REPORT

Sample ID: E/08/21/0300	Report No.: E/08/21/0300	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
1.	pH	<b>6.83</b>	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>176</b>	mg/L	IS 3025 (Part I): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>71</b>	mg/L	IS 3025 (Part 44):1993, RA 2014
4.	Chemical Oxygen Demand	<b>200</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL <sub>2</sub> )	<b>&lt;0.05</b>	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63

  
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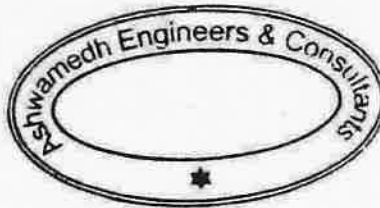
## TEST REPORT

Sample ID: E/08/21/0301	Report No.: E/08/21/0301	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>CHEMICAL TESTING</b>					
1.	pH	<b>8.14</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>7</b>	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>10</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.05</b>	1	mg/L (ppm)	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-B, 4-63



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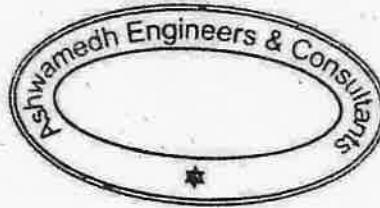


## TEST REPORT

Sample ID: E/09/21/0304	Report No.: E/09/21/0304	Report Date	07/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>				
1.	pH	<b>6.43</b>	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>82</b>	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>247</b>	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>700</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.05</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-G, 4-72

  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



-----End of Report-----

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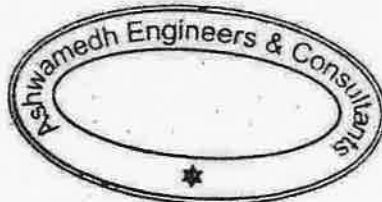


## TEST REPORT

Sample ID: E/09/21/0305	Report No.: E/09/21/0305	Report Date	07/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Cargo STP Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>					
1.	pH	<b>6.68</b>	Not Specified	-	IS 3025 (Part 1):1983, RA 2017
2.	Total Suspended Solids	<b>6</b>	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>23</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>70</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.05</b>	1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-G, 4-72

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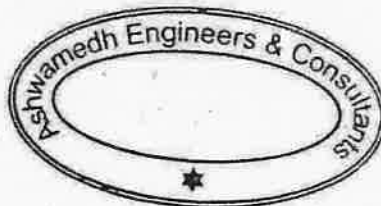
## TEST REPORT

Sample ID: E/09/21/0306	Report No.: E/09/21/0306	Report Date	08/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	07/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>				
1.	pH	6.58	-	IS 3025 (Part 11):1983, RA 2017
2.	Total Suspended Solids	68	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	340	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	960	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<0.05	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-G, 4-72

*[Signature]*

Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



-----End of Report-----

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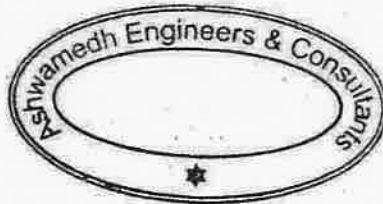


## TEST REPORT

Sample ID: E/09/21/0307	Report No.: E/09/21/0307	Report Date	08/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	07/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>					
1.	pH	<b>6.93</b>	Not Specified	-	IS 3025 (Part 11):1983, RA 2017
2.	Total Suspended Solids	<b>10</b>	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>21</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>90</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.05</b>	1	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-G, 4-72

Ninad Soundankar  
Technical Manager (Chemical)  
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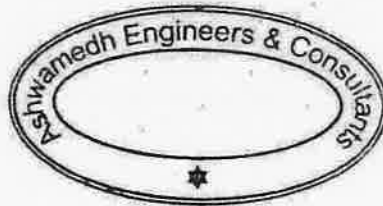
## TEST REPORT

Sample ID: E/09/21/0308	Report No.: E/09/21/0308	Report Date	07/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>				
1.	pH	<b>6.90</b>	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>78</b>	mg/L	IS 3025 (Part I): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>167</b>	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>440</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.055</b>	mg/L	APHA, 23 <sup>rd</sup> Ed., 2017, 4500-Cl-G, 4-72

*[Signature]*

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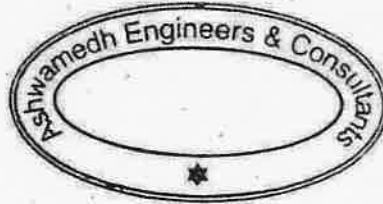
## TEST REPORT

Sample ID: E/09/21/0309	Report No.: E/09/21/0309	Report Date	07/10/2021
Name and Address of Customer	<b>Mumbai International Airport Ltd.</b> Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 <sup>th</sup> CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
<b>Chemical Testing; Group: Pollution &amp; Environment, Subgroup: Waste Water (Sewage)</b>					
1.	pH	<b>6.77</b>	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	<b>48</b>	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	<b>24</b>	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	<b>90</b>	100	mg/L	APHA, 23 <sup>rd</sup> Ed, 2017, 5220-B, 5-18
5.	Oil & Grease	<b>&lt;1</b>	Not Specified	mg/L	APHA, 23 <sup>rd</sup> Ed, 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl <sub>2</sub> )	<b>&lt;0.05</b>	1	mg/L	APHA, 23 <sup>rd</sup> Ed, 2017, 4500-Cl-6,4-72



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Technical Manager (Chemical)  
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-----End of Report-----

**Note:**

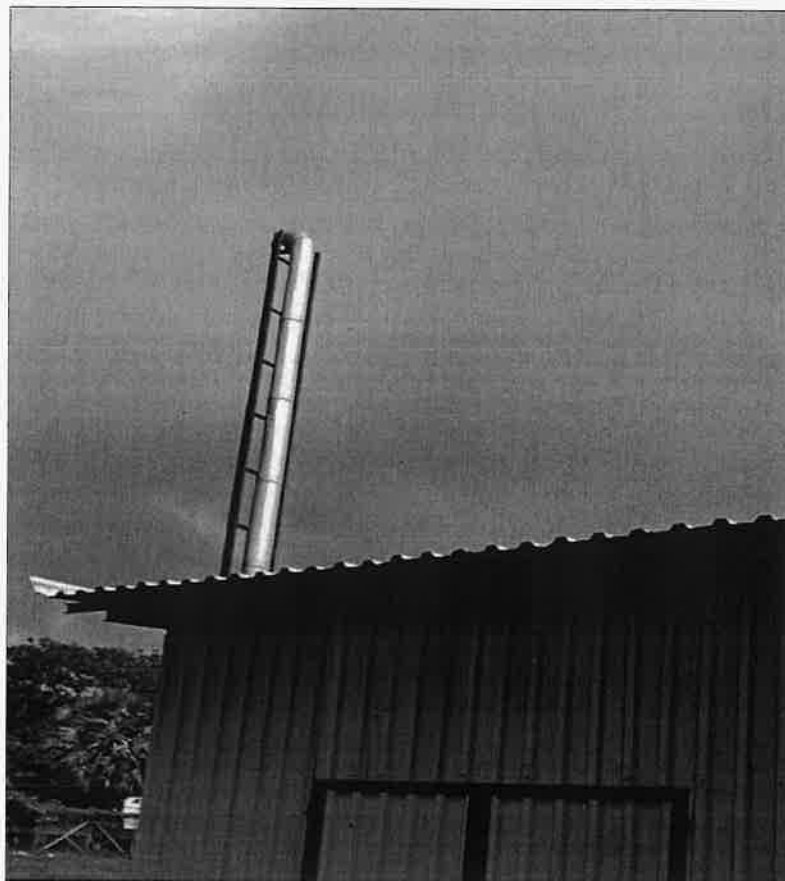
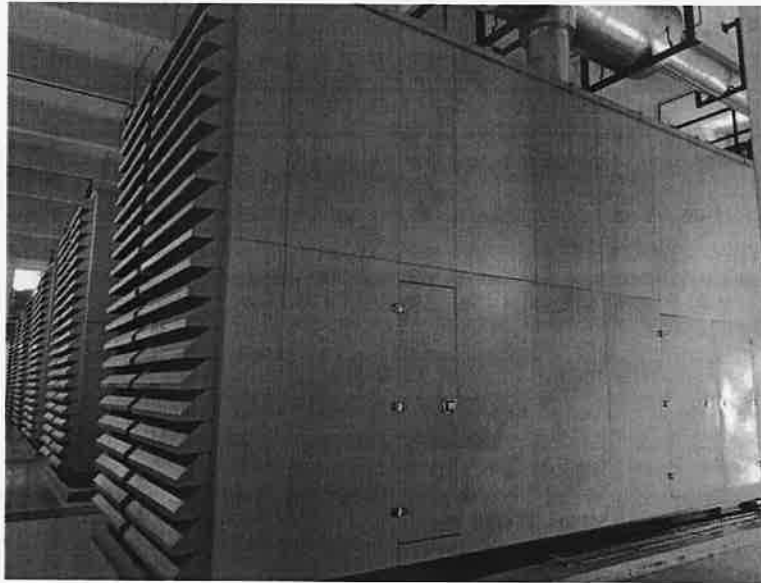
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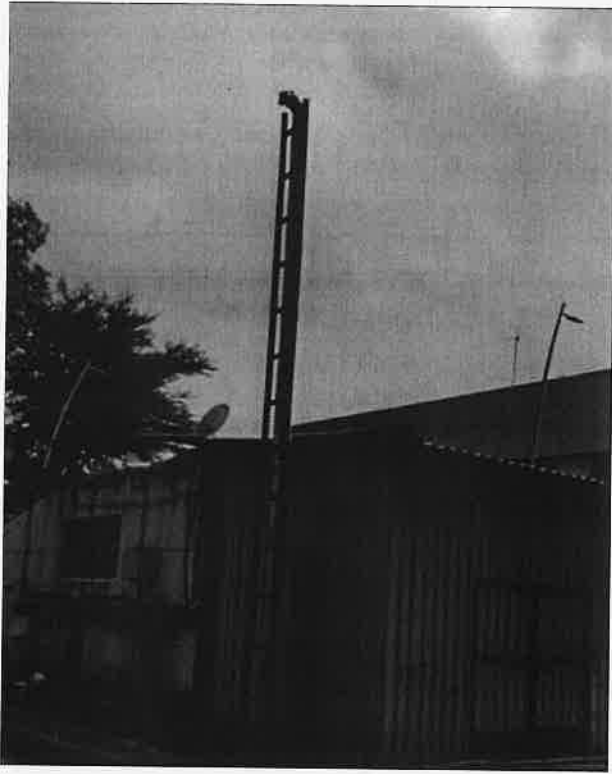




**Annexure -05 of DG sets are provided with pollution control measures**

## Annexure – 5 DG Set Enclosures and Stack Photos





**Annexure -06 Contingency plan for spills prevention.**

# Mumbai International Airport Ltd.


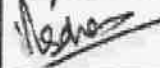



## AIRSIDE OPERATIONS

## AIRSIDE SAFETY

## STANDARD OPERATING PROCEDURE

## FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

Activity	Name	Signature	Date
Prepared By:	Rajesh Jadhav DGM- Airside Safety		
Recommended by:	Vinayak Sohani Documentation Lead.		
	Jayant Dasgupta AVP - Airside Management		
	Prasad Nair MR-IMS		13/11/21
Approved by	Prabhat Mahapatra EVP - Operations		13/11/21

### TABLE OF CONTENTS

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6	PROCEDURE	04	YES
7	FORMATS USED	07	
8	RECORDS GENERATED	07	
9	REFERENCES	07	
10	REVISION HISTORY	08	YES

## 1.0 PURPOSE

The purpose of this SOP is to establish the procedures for internal reporting, response, clean-up, documentation and subsequent notifications associated with fuel spills.

## 2.0 SCOPE

The SOP is applicable for aircraft fuel spillage, hydraulic spillage, diesel spillage on the apron or other aircraft movement area from aircraft, vehicles, equipment or fuel hydrant.

The scope of this procedure applies to the following agencies.

- Aircraft operators.
- Air Traffic Control Services- Airports Authority of India.
- Airport Rescue and Fire Fighting- MIAL.
- Airside Safety (Apron Control) - MIAL.
- Airside Ground Maintenance- MIAL.
- Ground Handling Agencies
- Fuelling Service Providers.
- Material Management of MIAL
- All agencies operating vehicles/equipment at airside

## 3.0 OBJECTIVE

The main objective is to ensure that all relevant parties, both MIAL and other stake holders participating in airport operations are made aware of these procedures to reduce cases of spillage/leakages in the movement area at CSMIA and ensure removal/clearance of the spillage as quickly as possible to restore normal operations.

## 4.0 RESPONSIBILITY

AVP-Airside Management is overall responsible for the implementation of procedures laid down in this SOP. Duty Manager of Apron Control is responsible to ensure that the procedures are carried out as per SOP.

## 5.0 DEFINITIONS & ABBREVIATIONS

AGM	Airside Ground Maintenance
APSU	Airport Security Unit
ARFF	Aerodrome Rescue and Fire Fighting
ASM	Airside Safety Management
ATC	Air Traffic Control
CISF	Central Industrial Security Force
GHA	Ground Handling Agency
JCC	Joint Control Centre
MPCB	Maharashtra Pollution Control Board
NOTAM	Notice to Airmen
PIC	Pilot -in- Command
SMC	Surface Movement Control.
SOP	Standard Operating Procedure



**Major fuel/Oil spillage:** A fuel/Oil spillage covering an area in excess of 02 Sqm, or quantity exceeding 22.5 Ltrs.(5 Gallons), or in the opinion of Duty Manager- Apron Control the spill constitutes a serious hazard is classified as a major fuel / Oil spillage.

**MIAL:** Mumbai International Airport Ltd, as Airport Operator of Chhatrapati Shivaji Maharaj International Airport (CSMIA).

**Apron:** A defined area, on a land aerodrome, intended to accommodate aircraft for purposes of loading or unloading passengers, mail or cargo, fuelling, parking or Maintenance.

## 6.0 PROCEDURE

### 6.1 Actions by person first noticing the spill

- Inform the person involved in fueling process or attending that particular aircraft by quickest possible means.
- Stop the fuel flow by pressing the fuel hydrant Emergency Shut off Button.
- Inform Apron Control immediately.

### 6.2 Actions by Aircraft Operator

Following actions are to be undertaken by the concerned Airline/fuelling company immediately in case of a fuel/oil spill incident:

- The PIC or the Engineer shall immediately report to ATC on VHF SMC Frequency when the aircraft is on the maneuvering area.
- Stop the engine of the aircraft and shall not start if it is already switched off.
- If required, do not allow any embarkation/disembarkation in case of a major spillage.
- Shall not operate any other systems/doors and equipment.
- Shall try to stop the leakage if possible from the aircraft.
- If the incident takes place during fuelling process then it shall be stopped immediately.
- Ensure that the aircraft is properly bonded / grounded.
- Shall immediately inform Apron control and concerned Ground Handling Agent about the incident.
- To place tray under the engine/aircraft whenever maintenances work is in progress. To avoid fuel/oil spill on ground.

### 6.3 Air Traffic Control

Following actions are to be taken by Air Traffic Control if a fuel spillage message is received:

- On receipt of the message of spillage, ATC will immediately inform Apron Control/JCC.
- Monitor the situation.
- If advised by JCC, by the way of Operational Memo, initiate NOTAM action.
- If the spillage is on the stand, do not give start up to aircraft unless reported safe to do so.
- Do not clear aircraft in an area where spillage is reported till the time the area is inspected and declared safe for operations.

#### 6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

- Apron Control
- Concerned airline/ operator.
- CISF
- Head corporate communications (If required).
- Intimate ATC for NOTAM if required.

#### 6.5 Airport Rescue and Fire Fighting (ARFF)

On receiving information from Apron Control/JCC, following actions shall immediately be initiated by the Duty Manager ARFF:

One Crash Fire Tender with crew to be dispatched to the site.

- After assessing the quantity of spillage in consultation with the Apron Manager/safety official cover the spillage area with foam if required.
- Park the Crash Fire Tender at safe place to prevent any impediment to the cleaning process.
- Keep the Crash Fire Tender standby till 'ALL CLEAR' is received from Apron Manager.
- Maintain listening out watch on R/T with ATC.

#### 6.6 Apron Control

Apron Manager on receipt of information from any source about the spillage shall initiate the following actions:

- Immediately get the area cordoned off if required.
- The Apron Control on receipt of the information will immediately inform ARFF, Fuelling Service Provider, the concerned Ground Handling Agency/Airlines, Duty Manager-Cargo(if required) and Duty Supervisor of AGM.
- If necessary, advise JCC to initiate NOTAM action.
- Manage vehicular traffic in such a manner that it doesn't affect the cleaning process/other operation.
- Ensure that handling of hazardous material is done by an expert, trained & competent specialist from ARFF/ Cargo Department / Airline /Handling Agencies.
- Make a record of the incident in the log-book and other relevant checklist.
- The Apron Manager shall exercise his discretion for imposing service charges from the polluter for clearing the major spillages at Airside.
- A service charge of Rs.10000/- + Rs.500 per saw dust bag used for cleaning the spillage (Rupees ten thousand + Rupees five hundred per saw dust bag) shall be levied from the polluter.

Service charges shall be levied in cases of where

**fuel spillage:** A fuel spillage covering an area in excess of 01 sq m, or in the opinion of Duty Manager- Apron Control the spill constitutes a serious hazard or, and contributes to surface damage.

**oil/fluid spillage** : An oil/fluid spillage covering an area in excess of 25 sq centimeters , or in the opinion of Duty Manager- Apron Control the spill constitutes a serious hazard or, and contributes to surface damage.

Note: In case oil / fuel spillage takes place from an aircraft which is moving on its own power or if the aircraft is making an emergency landing, service charges of Rs. 10,000/- will not be applicable,

### 6.7 Airside Ground Maintenance

- Duty Supervisor of AGM shall get the spillage area covered by oil absorbing material as soon as practicable.
- Cleaning of hazardous material shall be carried out as per the instructions of expert from Cargo/ARFF/GHAs/Airlines.
- Ensure the spillage is not reaching the storm water drainage system.
- Make all efforts to contain the area of spillage as much as possible
- Ensure the safe disposal of the absorbent material after cleaning the spillage to MPCB authorized agency for disposal.

### 6.8 Ground Handling Agency

Following actions are to be initiated immediately by the Shift Manager of the relevant Ground Handling Agency to minimize the danger of the spill:

- Restrict the movement of the Ground Support Equipment in the spillage area.
- Ground Power Units shall not be connected/removed or disconnected if oil spill is reported.
- All Ground Support Equipment to be manually pushed out of the area.
- No vehicle should be allowed to start in the area.
- Position trays and empty containers for collection of the soaked/mopped fuel.

### 6.9 Fueling Service Providers

On receipt of the information the Shift manager of the Fuelling Service Providing Company shall initiate the following actions:

- On receipt of information on oil spillage dispatch representative to observe and provide necessary assistance.
- If the incident takes place during fuelling operations then stop the fuelling **immediately**.
- In case of minor spillage it should be cleared using the facility available with them.
- Keep de-fuelling bowser standby.

### 6.10 Action by Airport Security Force

- Cordon off the area to protect it from potential hazards, if so requested by Duty Manager Apron Control.
- Check all activities of vehicles and stop unauthorized persons in the vicinity of incident.
- Provide adequate protection to the site and the operator.

### Contact List

Agency	Designation	Means of Communication
ARFF	Duty Manager	Radio / Telephone
ATC	Duty Controller	Radio / Telephone
Apron Control	Apron Manager	Radio / Telephone
JCC	Duty Manager	Radio / Telephone
Engg & Maint Dept.	Duty Manager	Radio / Telephone
Ground Handling Agent	Shift Manager	Telephone
Fuelling Service Provider	Shift Manager	Telephone
APSU	Supervisor	Telephone
Cargo	Shift Manager	Telephone

### 7.0 FORMATS USED

MIAL/AO-ASM/FMT/16/01

Checklist for Fuel/Fluid Spillage

### 8.0 RECORDS GENERATED

MIAL/AO-ASM/REC/16

Record of Fuel/Fluid Spillage

### 9.0 REFERENCES

NIL

**10.0 REVISION HISTORY**

<b>Date</b>	<b>Rev. No.</b>	<b>Page No.</b>	<b>Revision Description</b>
6/11/2012	01	6	Service charge for clearing spillage is included.
01/07/2014	02	3	New abbreviations are added, Responsibility changed.
01/07/2014	02	4	Definition of major fuel/oil/fluid spillage is revised
01/07/2014	02	6	Penalty charge is included under section 6.6
01/07/2014	02	3-7	AOCC replaced as JCC (Joint Control Center)
10/11/2015	03	6	Service charge for clearing spillage is reviewed for clarity.
11/01/2021	04	04	Para 6.2 (i) added in the SOP
11/02/2021	04	05	Para 6.6 charges for foam compound has been removed.

**Annexure- 07 Oil interceptors**





**Annexure-08 Certificate of Green Building Platinum Rating**



Confederation of Indian Industry

## Indian Green Building Council (IGBC)

# Mumbai International Airport Limited (T-2)

(IGBC Registration No: GEB 15 0662)

*has successfully achieved the Green Building Standards required for  
the following level of certification under the*

## **IGBC Green Existing Buildings Rating System**

### **Platinum**

December 2021

*(This certification is valid for next 3 years)*

**Gurmit Singh Arora**  
Chair, IGBC Green EB O&M

**V Suresh**  
Chairman, IGBC

**K S Venkatagiri**  
Executive Director, CII-Godrej GBC

**Annexure -9 Letter of previous compliance report submission**



Date: December 14, 2020

Ref.: MIAL/ENV/20/20

To,

Additional PCCF,  
Ministry of Environment, Forest & Climate Change,  
Regional Office, WCZ, New Civil Lanes,  
Nagpur - 440 001

Kind Attn: Mr. Suresh Kumar (Scientist -D)

**Sub.:** 7<sup>th</sup> half yearly Environmental Compliance report of EC received for "Upgradation of Chhatrapati Shivaji International Airport", Mumbai by MIAL.

**Ref.:** - Environment clearance no. 10-5/2007-IA-III dtd: 2<sup>nd</sup> June 2017, by MoEF&CC, GoI.

Dear Sir,

Reference may please be made to Environmental Clearance No. 10-5/2007-IA-III dated 2<sup>nd</sup> June 2017 for Upgradation of Chhatrapati Shivaji Maharaj International Airport (CSMIA), Mumbai, the half yearly compliance report of EC conditions and environmental quality monitoring reports for the period from June to September 2020 is given in this CD (attached herewith).

The environment quality monitoring which is carried out through MoEF&CC accredited third party laboratory, was not conducted in the months of April and June 2020 due to Novel coronavirus pandemic lockdown restrictions.

As per the MoEF&CC notification SO 5845 (E) dated 28<sup>th</sup> November 2018, we are submitting the EC compliance report and annexures in soft copy only.

Please acknowledge receipt of same.

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

Shailendra Joshi  
General Manager - Environment & Sustainability

Encl: CD of 7<sup>th</sup> half yearly Environmental compliance report.

CC: 1. Zonal office, CPCB, Vadodara

2. Regional Officer, MPCB Mumbai



**Mumbai International Airport Limited**  
Chhatrapati Shivaji Maharaj International Airport  
1st Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India

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CIN - U45200MH2006PLC160164

ENERGY  
RESOURCES  
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LIFE SCIENCES

**Annexure - 10 Environment statement Form- V for FY 20-21**



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037907

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

Mumbai International Airport Limited

#### Application UAN number

0000046050

#### Address

Chhatrapati Shivaji Maharaj  
International Airport (CSMIA),

#### Plot no

1st floor, Terminal - 1

#### Taluka

Mumbai

#### Village

Santacruz (East),

#### Capital Investment (In lakhs)

11132.62

#### Scale

Large

#### City

Mumbai

#### Pincode

400099

#### Person Name

Dr. Ajay Mehrotra

#### Designation

Senior Vice President

#### Telephone Number

02266850778

#### Fax Number

02266850778

#### Email

ajay.mehrotra@gvk.com

#### Region

SRO-Mumbai II

#### Industry Category

Red

#### Industry Type

R23 Airports and Commercial Air Strips

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/CAC-cell/UAN-0000046050/5th CAC-18110013979  
and CAC/UAN no - 0000082458/CR-2007001672 and  
BO/CAC-cell/UAN No. 0000009577/1st  
CAC-1706000704

#### Consent Issue Date

29.11.2018

#### Consent Valid Upto

2021-10-31

#### Establishment Year

2006

#### Date of last environment statement submitted

Sep 28 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Nos./Y

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Nos./Y

## Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>				
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>		
	0.00	0		
<b>Cooling</b>	0.00	0		
<b>Domestic</b>	7100.00	2379.6		
<b>All others</b>	0.00	0		
<b>Total</b>	7100.00	2379.6		

<u>2) Effluent Generation in CMD / MLD</u>				
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>	
Sewage generation at CSMIA	6615	1524.8	CMD	

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>				
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>	
Water consumption per passenger	0.029	0.078		

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>				
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>	
NIL	0	0	CMD	

<u>4) Fuel Consumption</u>				
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>	
Diesel for DG set	14760	119.4		

## Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>						
<u>[A] Water</u>						
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>	
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>			
pH	7.1	7.1	0	8	Pollutant discharge within standard limit	
Suspended Solids	23.7	19.2	0	50	Pollutant discharge within standard limit	
BOD 3 days (27oC)	11.8	9.6	0	30	Pollutant discharge within standard limit	
COD	25.9	21.0	0	100	Pollutant discharge within standard limit	

<u>[B] Air (Stack)</u>						
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<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
SO2 (Kg/day)	2.1	0	0	295.2	Pollutant discharge within standard limit
Total Particulate matter (mg/Nm3)	0	48.2	0	150	Pollutant discharge within standard limit

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0	0	MT/A
5.2 Wastes or residues containing oil	2.6	2.42	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	6.4	3.41	MT/A
23.1 Wastes or residues (not made with vegetable or animal materials)	26.8	44.84	MT/A

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	MT/A

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Waste Plastics	144	117	MT/A
Waste Paper	658	531	MT/A
Waste glass bottles	136	115	MT/A
Waste Plastics bottles	131	117	MT/A
Waste wood	151	113	MT/A
Broken tins	136	108	MT/A
Other Misc. scrap	149	114	MT/A
Waste cotton	125	88	MT/A
Wet waste	2926	1840.7	MT/A

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
STP sludge	7.68	1.52	MT/A

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
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**Part-F**

**Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	0.0	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
5.2 Wastes or residues containing oil	2.42	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3.41	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
23.1 Wastes or residues (not made with vegetable or animal materials)	44.84	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Waste plastic	117	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste paper	531	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste glass bottles	115	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste plastic bottles	117	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste wood	113	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste broken tins	108	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Other Misc. Scrap	114	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste cotton	88	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Wet Waste	1840.7	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Organic / food waste	207.3	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Energy saving measures at CSMIA	0	0	0	100000	2.5	0

**Part-H**

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

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
NIL	NIL	0

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
NA	NA	0.0

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

NIL

**Name & Designation**

Senior Vice President

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037907

**Submitted On:**

29-09-2021