

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 October 2021 - March 2022



Chhatrapati Shivaji Maharaj
INTERNATIONAL AIRPORT
MUMBAI

Ref: MIAL/ENV/22/11

29th 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 2nd June 2017

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

As per the Ministry of Environment, Forest and Climate Change notification vide no. F. No. IA3-22/1/2022-IA-III [E- 172624] dated 14th June 2022 six-monthly compliance report will be submitted through dedicated module in PARIVESH from the next reporting cycle.

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 Oct to March of FY 21 -22)

**Present Status of Compliance to Conditions stipulated in EC F.No. 10-5/2007-IA-III dated
2nd 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 2nd 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'2017 letter is as below:

S.N.	Conditions	Compliance Status
(A) Specific Condition		
(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	Contingency plan for spills prevention is in place. Refer Annexure -06

	undertaken and control of runoff of potential contaminants, chemicals etc. shall be properly implemented and reported.	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 3.01 MLD water sourced from MCGM during the period of Oct 21 to March 22.
(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 1561 KLD sewage generated in FY 21-22. 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 Plan and in the plan for CSR as applicable.	Complied, EMP is being implemented. various CSR initiatives in the field of health, education, women empowerment, environment, etc. are being implemented.
(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) GENERAL CONDITIONS		
(i)	The project authorities must strictly adhere to the stipulations made by the	Noted. MPCB has granted Consent to Establish vide letter no BO/CAC-

	SPCB, State Government and any other statutory authority	cell/UAN No. 16949/CE/CAC-1803000696 dated 14.03.2018 and revalidation applied vide UAN No: MPCB-CONSENT-0000136644 submitted on 14-04-2022 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(day time) and 70dBA(night time)	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 for 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 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.	Noted and complied, Separate budget for Environment protection measures and initiatives are allocated every year. Approx. INR 2.70 Cr were spent in FY 2021-22 for STP O&M, waste disposal, greenery maintenance etc.
(vi)	The regional office of this Ministry/CPCB/SPCB will monitor the	Noted. monitored data is being submitted along with six monthly

	stipulated conditions. A six-monthly compliance report and the monitored data along with the statistical interpretation shall be submitted to them regularly.	compliance report. Last compliance report was submitted on December 09, 2021, refer Annexure -9 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 th June 2017 and MIAL/DIR(UP)/158(B)/2017/175 dated 28 th 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 09, 2021. Refer Annexure -09 letter of previous compliance report submission.
(ix)	The environmental statement for each financial year ending 31 st March in form -V as is mandated to be submitted by the project proponent to the concerned 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 th September 2021. It is available also available on the website - https://csmia.adaniairports.com/all-reports.aspx 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 of Environment, Forest & Climate Change at http://www.envfor.nic.in . 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	Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 th December 2017.

	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 Copy



सत्यमेव जयते

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 4th 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: 01st November 2018
New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

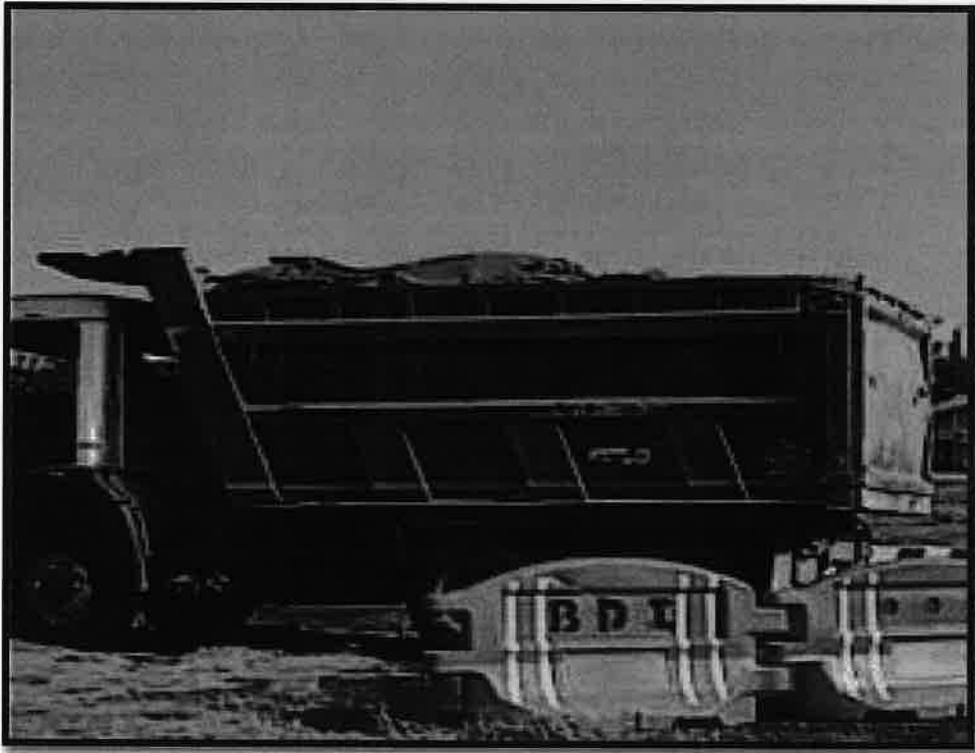
Annexure -02 - Refer for Barricading practices

Annexure - 02 Barricading practices at Construction site



**Annexure -03 For practices followed during
construction.**

Annexure -03 – Construction Material Trucks are covered with tarpaulin



Annexure -04- For monitoring reports.

AMBIENT AIR QUALITY MONITORING REPORT


Sample ID: AA/10/21/0605	Report No.: AA/10/21/0605	Report Date	03/11/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project office sahar	Date-Sampling	26/10/2021 to 27/10/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	28/10/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	28/10/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/11/2021
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

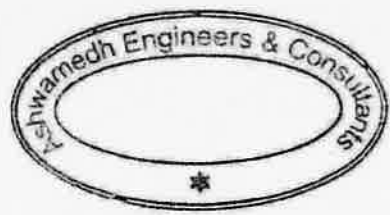
Meteorological Data / Environmental Conditions

Average Wind velocity 9.1 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 70/68%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality				
Sulphur Dioxide (SO ₂)	5.15	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.1	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	78	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	17	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.22	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in
case of Carbon Monoxide.


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.



AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/0606	Report No.: AA/10/21/0606	Report Date	03/11/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	26/10/2021 to 27/10/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	28/10/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	28/10/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/11/2021
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 72/68%	Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h
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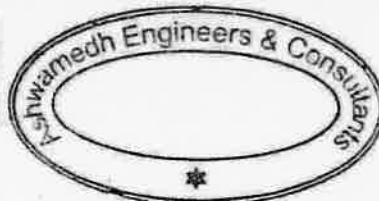
Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality

Sulphur Dioxide (SO ₂)	5.48	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.1	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	26	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	7	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-3.1 G 3.2
Carbon Monoxide (CO)	1.82	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.


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.



AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/0607	Report No.: AA/10/21/0607	Report Date	03/11/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	26/10/2021 to 27/10/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	28/10/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	28/10/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/11/2021
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

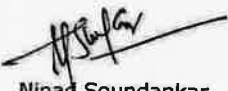
Average Wind velocity 10 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 71/69%	Temperature (Max./Min.): 30/28°C	Duration of Survey 24 h
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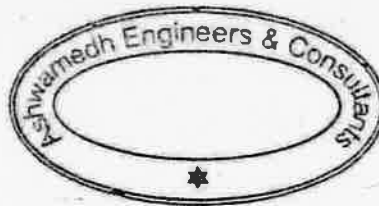
Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality

Sulphur Dioxide (SO ₂)	5.02	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.4	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	63	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	17	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.79	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

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, PM₁₀, PM_{2.5}, 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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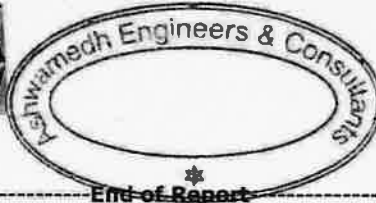
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/0608	Report No.: AA/10/21/0608	Report Date	04/11/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	26/10/2021 to 27/10/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	28/10/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	28/10/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/11/2021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 71/68%	Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality				
Sulphur Dioxide (SO ₂)	5.78	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.8	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	44	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	9	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.31	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018
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 ₁₀ , PM _{2.5} , 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/11/21/0728	Report No.: AA/11/21/0728	Report Date	11/12/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	25/11/2021 to 26/11/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/11/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	27/11/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	10/12/2021
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th 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.): 76/65%	Temperature (Max./Min.): 30/28°C	Duration of Survey 24 h
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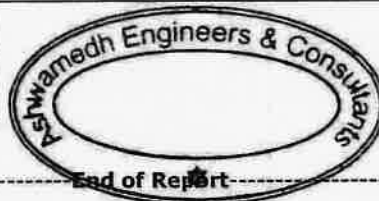
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.23	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	8	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.61	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/11/21/0729	Report No.: AA/11/21/0729	Report Date	11/12/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	25/11/2021 to 26/11/2021
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	27/11/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	27/11/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	10/12/2021
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.6 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):75/60%	Temperature (Max./Min.):31/29°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

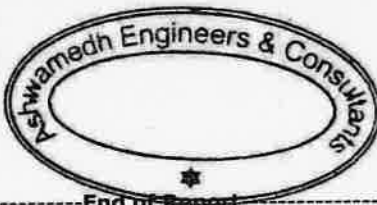
Sulphur Dioxide (SO ₂)	4.77	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.1	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	55	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.43	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/11/21/0730	Report No.: AA/11/21/0730	Report Date	11/12/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	25/11/2021 to 26/11/2021
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	27/11/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	27/11/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	10/12/2021
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 000046050/5 th CAC-1811001379 Dated 29.11.2018			

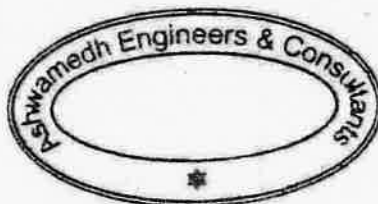
Meteorological Data / Environmental Conditions

Average Wind velocity 10.8 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):72/63%	Temperature (Max./Min.):30/29°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.29	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.4	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	76	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	17	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	2.09	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/11/21/0731	Report No.: AA/11/21/0731	Report Date	11/12/2021
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	25/11/2021 to 26/11/2021
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/11/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	27/11/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	10/12/2021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 70/58%	Temperature (Max./Min.): 31/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality				
Sulphur Dioxide (SO ₂)	5.07	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	45	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	9	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.51	4	mg/m ³	CPCB Guidelines: 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/12/21/0689	Report No.: AA/12/21/0689	Report Date	03/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	23/12/2021 to 24/12/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	25/12/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	25/12/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/01/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.):69/55%	Temperature (Max./Min.):30/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	5.34	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	34	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	6	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-31 & 3.2
Carbon Monoxide (CO)	1.74	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

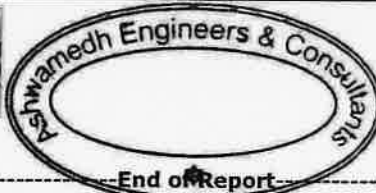
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

B. Shewale

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



End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/12/21/0690	Report No.: AA/12/21/0690	Report Date	03/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	23/12/2021 to 24/12/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	25/12/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	25/12/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/01/2022
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th 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.): 69/58%	Temperature (Max./Min.): 31/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	6.32	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.3	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	45	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	12	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.48	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

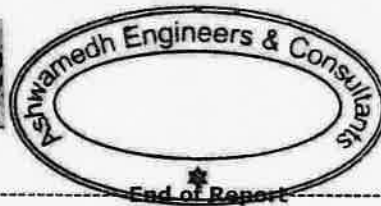
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

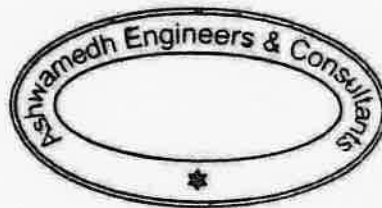
Sample ID: AA/12/21/0691	Report No.: AA/12/21/0691	Report Date	03/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	23/12/2021 to 24/12/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	25/12/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	25/12/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/01/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 67/57%	Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.22	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	9.69	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	33	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	7	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-95/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	1.46	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification 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 ₁₀ , PM _{2.5} , Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.				

B. Shewale

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



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

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/12/21/0692	Report No.: AA/12/21/0692	Report Date	03/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	23/12/2021 to 24/12/2021
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	25/12/2021
Sampling Procedure	As per method reference	Date-Start of Analysis	25/12/2021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	03/01/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10.3 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 70/60%	Temperature (Max./Min.): 32/28°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality

Sulphur Dioxide (SO ₂)	5.59	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	9.93	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	38	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	7	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 G 3.2
Carbon Monoxide (CO)	1.46	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

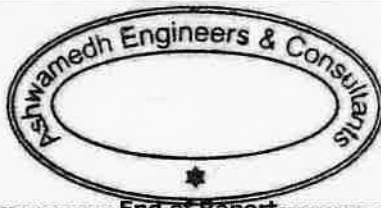
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Kavita Shewale

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



End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/01/22/0778	Report No.: AA/01/22/0778	Report Date	31/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	24/01/2022 to 25/01/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/01/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	27/01/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/01/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.5 km/h	Wind Direction S-E	Relative Humidity (Max./Min.): 75/68%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.77	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.2	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	54	100	µg/m ³	IS 5182 (Part 28): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	12	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method (D-3) § 3.2
Carbon Monoxide (CO)	1.41	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/01/22/0779	Report No.: AA/01/22/0779	Report Date	31/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	24/01/2022 to 25/01/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/01/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	27/01/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/01/2022
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.6 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 78/68%	Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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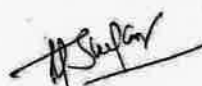
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	5.37	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	42	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	12	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.71	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/01/22/0780	Report No.: AA/01/22/0780	Report Date	31/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	24/01/2022 to 25/01/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/01/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	27/01/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/01/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10.3 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 70/62%	Temperature (Max./Min.): 31/28°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

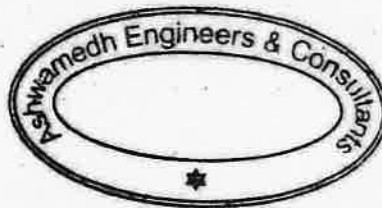
Sulphur Dioxide (SO ₂)	5.67	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.6	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	26	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	6	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.54	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/01/22/0781	Report No.: AA/01/22/0781	Report Date	31/01/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	24/01/2022 to 25/01/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	27/01/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	27/01/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/01/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th 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.):72/63%	Temperature (Max./Min.):31/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution; Subgroup: Ambient Air Quality

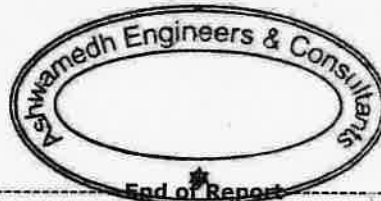
Sulphur Dioxide (SO ₂)	5.37	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.5	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	50	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	14	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	2.02	4	mg/m ³	CPCB Guidelines: 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/02/22/0549	Report No.: AA/02/22/0549	Report Date	23/02/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	17/02/2022 to 18/02/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	19/02/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	19/02/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	23/02/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 69/61%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.77	80	µg/m ³	IS 582 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.2	80	µg/m ³	IS 582 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	42	100	µg/m ³	IS 582 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.61	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/02/22/0550	Report No: AA/02/22/0550	Report Date	23/02/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	17/02/2022 to 18/02/2022
Sample Quantity/ Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	19/02/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	19/02/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	23/02/2022
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th 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.): 75/65%	Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	5.17	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.5	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.51	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

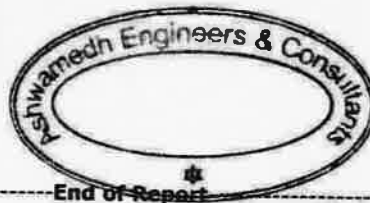
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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

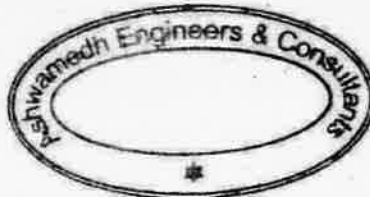
Sample ID: AA/02/22/0551	Report No.: AA/02/22/0551	Report Date	23/02/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	17/02/2022 to 18/02/2022
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	19/02/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	19/02/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	23/02/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 72/63%	Temperature (Max./Min.): 31/27°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.17	80	µg/m ³	IS 5882 (Part 2): 2008
Nitrogen Dioxide (NO ₂)	9.91	80	µg/m ³	IS 5882 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	51	100	µg/m ³	IS 5882 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	13	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	0.029	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.46	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification 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 ₁₀ , PM _{2.5} , Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.				

[Signature]

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

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/02/22/0552	Report No.: AA/02/22/0552	Report Date	23/02/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	17/02/2022 to 18/02/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	19/02/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	19/02/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	23/02/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 70/65%	Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	6.76	80	µg/m ³	IS 5982 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.42	80	µg/m ³	IS 5982 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	32	100	µg/m ³	IS 5982 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	7	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 8 3.2
Carbon Monoxide (CO)	1.96	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:4)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

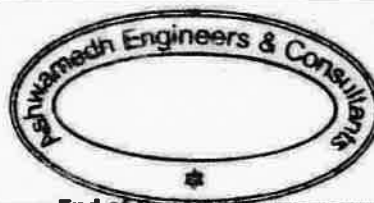
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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/03/22/0963	Report No. AA/03/22/0963	Report Date	06/04/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	28/03/2022 to 29/03/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/03/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	30/03/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/04/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3936A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.3 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 65/53%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.49	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.99	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	32	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	7	60	µg/m ³	CPCB Guideline, Volume 1, 36/2012-13, Page No.15, 2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.55	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no: 04 Issue date: 01.04.2008

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, 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

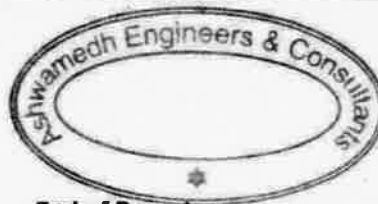
Sample ID: AA/03/22/0964	Report No: AA/03/22/0964	Report Date	06/04/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	28/03/2022 to 29/03/2022
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/03/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	30/03/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/04/2022
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3935A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 70/66%	Temperature (Max./Min.): 31/28°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2007
Nitrogen Dioxide (NO ₂)	13.1	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	30	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	8	60	µg/m ³	CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2
Carbon Monoxide (CO)	1.74	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	56.8	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification 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 ₁₀ , PM _{2.5} , 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/03/22/0965	Report No.: AA/03/22/0965	Report Date	06/04/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	28/03/2022 to 29/03/2022
Sample Quantity/ Packing	PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/03/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	30/03/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/04/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 10.5 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 72/65%	Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

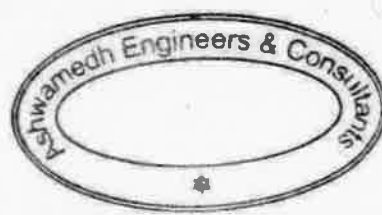
Sulphur Dioxide (SO ₂)	5.65	80	µg/m ³	IS 5182 (Part 2): 2009
Nitrogen Dioxide (NO ₂)	9.06	80	µg/m ³	IS 5182 (Part 2): 2009
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5182 (Part 2): 2009
Particulate Matter (size less than 2.5µm) or PM _{2.5}	12	60	µg/m ³	CPCB Guideline, Volume 1, 36/2012-13, Page No.15, 2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6.3.2
Carbon Monoxide (CO)	1.36	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/03/22/0966	Report No.: AA/03/22/0966	Report Date	06/04/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra.		
Sample done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	28/03/2022 to 29/03/2022
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	30/03/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	30/03/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/04/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3934A
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th 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.): 69/62%	Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

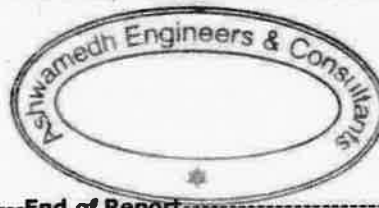
Sulphur Dioxide (SO ₂)	4.88	80	µg/m ³	IS 5882 (Part 2): 2006
Nitrogen Dioxide (NO ₂)	10	80	µg/m ³	IS 5882 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	31	100	µg/m ³	IS 5882 (Part 2): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	7	60	µg/m ³	CPCB Guideline, Volume 1.36/2012-13, Page No.15.2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 32
Carbon Monoxide (CO)	1.59	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.6
Ammonia (NH ₃)	43	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/10/21/0620	Report No: N/10/21/0620	Report Date	31/10/2021
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	Noise
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	26/10/2021 to 27/10/2021
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	66.4	61.9	68.7	64.0	62.5	64.9	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/35B 36, Issue no.4, Issue date 01.04.2018
2	STP Terminal 1	65.2	61.5	68.4	64.1	62.5	64.8	
3	CCR-2	65.6	63.2	67.8	63.8	61.4	65.0	
4	Adani Airport Noise (Apron Control)	66.8	61.1	69.4	63.3	61.3	64.5	
5	6 No Gate (Sahar)	67.5	64.2	69.4	62.8	60.1	64.1	
6	Lima 8	67.2	64.5	69.4	64.1	63.5	64.8	
7	Runway 14 End	67.8	63.5	69.4	62.5	60.1	63.5	
8	Project Office (Sahar)	65.0	63.1	67.4	63.5	61.4	64.2	
9	Cargo 4D	66.5	63.5	68.4	63.4	62.0	64.1	
10	OWC Kurla	65.3	60.1	68.4	63.9	62.5	64.5	
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			

B. Shewale

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



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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/11/21/0809	Report No.: N/11/21/0809	Report Date	02/12/2021
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	Noise
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	25/11/2021 to 25/11/2021
Calibration Certificate	YEA(C)/ 201128A/A1129/014	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	2016083759

Chemical Testing; Group: Atmospheric Pollution

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	66.1	61.4	68.7	62.7	60.1	64.5	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/358-36, Issue no.4. Issue date 01.04.2018
2	STP Terminal 1	65.4	61.5	68.4	61.9	60.2	63.2	
3	CCR-2	65.6	63.4	67.4	62.0	60.1	63.2	
4	Adani Airport Noise (Apron Control)	67.1	63.7	69.4	62.7	60.1	64.2	
5	6 No Gate (Sahar)	67.4	64.2	69.4	62.6	60.1	64.1	
6	Lima 8	67.2	64.5	69.4	62.5	60.0	63.5	
7	Runway 14 End	68.1	63.5	69.7	63.1	61.2	64.5	
8	Project Office (Sahar)	66.1	63.1	69.8	63.6	62.5	64.2	
9	Cargo 4D	66.5	63.5	68.4	63.3	62.0	64.1	
10	OWC Kurla	65.8	63.2	68.4	62.1	60.1	64.1	

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

K. Shewale

Kavita Shewale
Section In-charge (Chemical)
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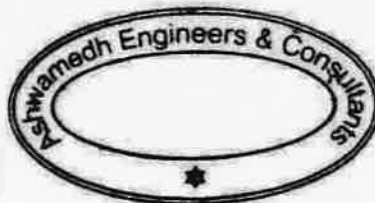
NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/12/21/0693	Report No.: N/12/21/0693	Report Date	30/12/2021
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
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	23/12/2021 to 23/12/2021
Calibration Certificate	YEA(C)/ 201128A/A1129/014	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	2016083759

Chemical Testing; Group: Atmospheric Pollution								
Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Project Office (Sahar)	63.4	61.7	65.2	60.9	58.5	63.3	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/358 36, Issue no-4, Issue date 01.04.2018
2	Terminal 1 MLCP (Santacruz)	65.3	63.2	68.9	62.5	58.3	63.7	
3	Sarvodaya Hospital (Ghatkopar)	64.2	62.1	67.2	62.4	60.5	63.8	
4	OWC Kurla	64.5	59.2	66.7	62.3	60.1	63.9	
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



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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/01/22/0823	Report No.: N/01/22/0823	Report Date	29/01/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	24/01/2022 to 25/01/2022
Calibration Certificate	YEA(C)/ 201128A/A1129/014	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	2016083759

Chemical Testing; Group: Atmospheric Pollution

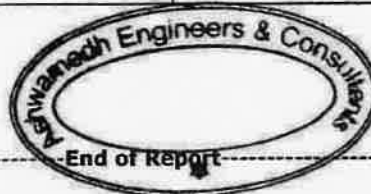
Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.6	64.5	68.4	64.0	62.8	65.0	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/356 36, Issue no.4, Issue date 01.04.2018
2	STP Terminal- 1	65.9	62.4	67.8	63.5	61.5	64.8	
3	CCR-2	65.1	62.5	67.8	63.7	60.5	64.9	
4	Apron Control	67.4	62.3	69.5	63.2	60.1	64.8	
5	6 No Gate (Sahar)	67.8	64.8	69.7	63.1	61.2	64.5	
6	Lima 8	67.1	63.5	69.5	63.5	62.2	64.7	
7	Runway 14 End	67.0	64.5	69.4	62.6	60.1	63.5	
8	Project Office (Sahar)	65.2	60.5	68.5	63.4	62.4	64.8	
9	Cargo 4D	66.9	64.8	69.5	63.5	61.5	64.3	
10	OWC Kurts	66.5	62.3	68.9	63.4	60.1	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


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Technical Manager (Chemical)
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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/02/22/0638	Report No: N/02/22/0638	Report Date	23/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	17/02/2022 to 18/02/2022
Calibration Certificate	CC/ECL/1534/20-21	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	VI-EQP-61

Chemical Testing; Group: Atmospheric Pollution

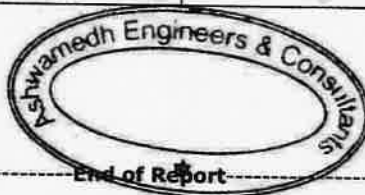
Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	65.3	60.4	68.7	63.0	60.4	64.8	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/358 36 Issue no.-4, Issue date 01.04.2018
2	STP Terminal- 1	65.1	62.3	67.8	62.1	60.0	63.5	
3	CCR-2	65.4	62.4	67.8	62.2	60.7	63.4	
4	Apron Control	65.9	63.5	67.8	63.1	60.8	64.8	
5	6 No Gate (Sahar)	66.2	63.5	69.8	62.7	60.4	63.5	
6	Lima 8	65.8	62.8	68.4	66.6	63.8	68.7	
7	Runway 14 End	66.6	63.8	68.7	62.3	60.5	63.8	
8	Project Office (Sahar)	65.7	61.8	68.7	62.5	60.5	63.8	
9	Cargo 4D	65.9	63.5	68.7	62.7	60.4	63.8	
10	OWC Kuris	66.3	63.5	69.8	62.7	60.8	64.7	

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


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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/22/027	Report No.: N/04/22/027	Report Date	05/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099		
Monitoring Done By	Laboratory	Sample Description/Type	Ambient Noise
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	29/03/2022 to 29/03/2022
Calibration Certificate	CC/ECL/1534/20-21	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	VI-EQP-61

Chemical Testing; Group: Atmospheric Pollution

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	64.1	61.0	65.8	62.5	60.1	64.1	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/358-36, Issue no-4, Issue date 01.04.2018
2	STP Terminal- 1	63.5	61.2	65.5	62.8	61.2	64.2	
3	CCR-2	64.1	61.2	66.5	62.9	61.4	64.2	
4	Apron Control	64.1	61.2	66.8	62.5	60.1	64.2	
5	6 No Gate (Sahar)	65.1	61.2	68.4	62.8	60.1	64.2	
6	Lima 8	65.7	62.4	68.4	62.8	61.4	63.8	
7	Runway 14 End	66.2	61.4	68.4	62.4	60.1	63.8	
8	Project Office (Sahar)	65.5	61.8	68.7	62.6	60.5	64.5	
9	Cargo 4D	65.6	62.1	68.7	62.7	61.0	64.2	
10	OWC Kurlis	65.8	62.5	68.5	62.7	60.1	64.7	

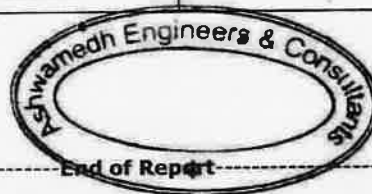
Limit

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

Handwritten Signature

Ninad Soundankar
Technical Manager (Chemical)
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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/01	Report No: SA/04/22/01	Report Date	06/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	29/03/2022
		Date - Receipt of Sample	01/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	05/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

~Stack Identity	Stack ICZ Area - 7
~Stack attached to	D G Set 500 KVA
~Material of construction	MS
~Stack height above ground level	8 m
~Stack diameter	0.25 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	24 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	142	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	12.8	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	1595	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	24	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	5.82	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.22	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	13.6	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/02	Report No: SA/04/22/02	Report Date	06/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	29/03/2022
		Date - Receipt of Sample	01/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	05/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

~Stack Identity	Warehouse D G 1 - 8
~Stack attached to	D G Set 62.5 KVA
~Material of construction	MS
~Stack height above ground level	3 m
~Stack diameter	0.10 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	11 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	92	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.56	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	188	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	20	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	7.27	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.03	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	15.9	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/03	Report No: SA/04/22/03	Report Date	06/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	29/03/2022
		Date - Receipt of Sample	01/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

~Stack Identity	Warehouse D G 2 - 9
~Stack attached to	D G Set 62.5 KVA
~Material of construction	MS
~Stack height above ground level	3 m
~Stack diameter	0.10 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	11 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	86	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.62	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	193	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	18	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	8.73	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.04	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	19	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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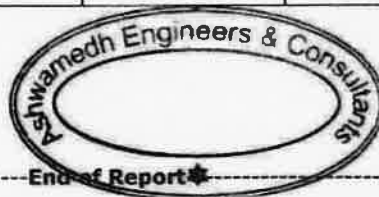
Sample ID: SA/04/22/04	Report No: SA/04/22/04	Report Date	06/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	29/03/2022
		Date - Receipt of Sample	01/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

~Stack Identity	Warehouse Portable - 10
~Stack attached to	D G Set 125 KVA
~Material of construction	MS
~Stack height above ground level	1 m
~Stack diameter	0.15 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	13 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	118	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	9.67	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	447	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	24	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	5.82	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.06	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	16	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/05	Report No.: SA/04/22/05	Report Date	06/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	29/03/2022
		Date - Receipt of Sample	01/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	05/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

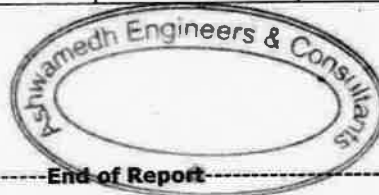
~Stack Identity	Stack SCUB Area - 11
~Stack attached to	D G 380 KVA
~Material of construction	MS
~Stack height above ground level	1 m
~Stack diameter	0.20 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	16 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

Flue Gas Temperature	128	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	10.5	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	864	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	22	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	7.14	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.15	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	14.8	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/0150	Report No: SA/04/22/0150	Report Date	08/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	30/03/2022
		Date - Receipt of Sample	04/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	04/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	07/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

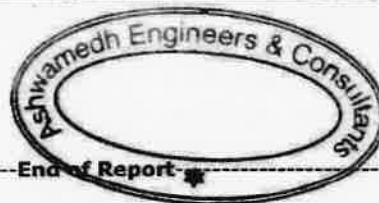
~Stack Identity	Intec Power House - 12
~Stack attached to	D G Set 604 KVA
~Material of construction	MS
~Stack height above ground level	10 m
~Stack diameter	0.20 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	22 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
-----------	--------	----------------------------	------	--------

Chemical Testing; Group: Atmospheric Pollution

Flue Gas Temperature	132	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	13	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	1044	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	21	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	7.14	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.18	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	16.8	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/0151	Report No: SA/04/22/0151	Report Date	08/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	30/03/2022
		Date - Receipt of Sample	04/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	04/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	07/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

Stack Details

~Stack Identity	Intec Power House - 13
~Stack attached to	D G Set 625 KVA
~Material of construction	MS
~Stack height above ground level	10 m
~Stack diameter	0.20 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	24 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	148	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	12	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	939	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	18	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	5.71	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.13	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	15	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/22/0152	Report No: SA/04/22/0152	Report Date	08/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	30/03/2022
		Date - Receipt of Sample	04/04/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	04/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	07/04/2022
Calibration Certificate No.	ECL/AEC-2021-22/Flow/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06
Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018			

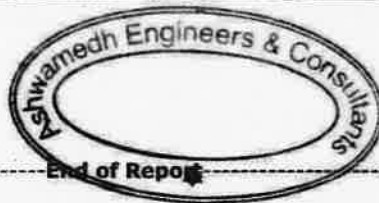
Stack Details

~Stack Identity	Intec Power House - 14
~Stack attached to	D G Set 500 KVA
~Material of construction	MS
~Stack height above ground level	10 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	20 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	139	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	10	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	1736	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	19	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	7.14	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.30	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	17.5	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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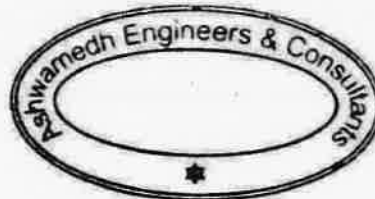
TEST REPORT

Sample ID: E/10/21/0330	Report No.: E/10/21/0330	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	pH	6.75	Not specified	-	IS 3025 (Part 1):1983
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	Not specified	mg/L	APHA, 23 rd Ed., 2017, 5520-B, 5-42

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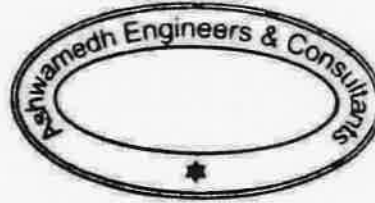
TEST REPORT

Sample ID: E/10/21/0330	Report No: E/10/21/0330N	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	Free Residual Chlorine (as Cl ₂)	<0.05	1	mg/L(ppm)	APHA 23rd Ed. 2017. 4500-Cl-64-72



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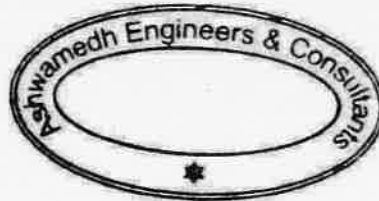
TEST REPORT

Sample ID: E/10/21/0329	Report No.: E/10/21/0329	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)				
1.	pH	6.25	-	IS 3025 (Part 1):1983
2.	Total Suspended Solids	54	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	21	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	90	mg/L	APHA, 23 rd Ed, 2017, 5220-B, 5-B
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed, 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	<0.05	mg/L	APHA, 23 rd Ed, 2017, 4500-Cl-6.4-72



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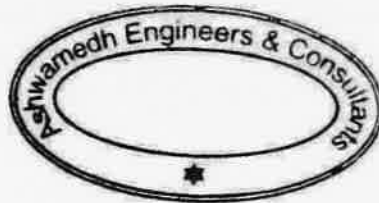


TEST REPORT

Sample ID: E/10/21/0331	Report No.: E/10/21/0331	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)				
1.	pH	6.29	-	IS 3025 (Part 0):1983
2.	Total Suspended Solids	56	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	308	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	800	mg/L	APHA, 23 rd Ed., 2017, 5.220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed., 2017, 5.520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.055	mg/L	APHA, 23 rd Ed., 2017, 4.500-CI-6.4-72

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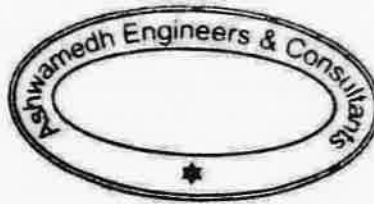
TEST REPORT

Sample ID: E/10/21/0332	Report No: E/10/21/0332	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	pH	6.72	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	8	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1983
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	Not specified	mg/L	APHA, 23 rd Ed., 2017, 5520-B, 5-42



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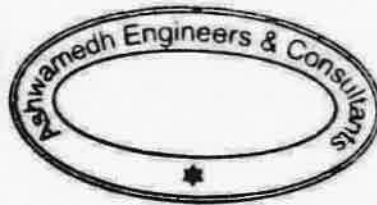
TEST REPORT

Sample ID: E/10/21/0332	Report No.: E/10/21/0332N	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	Free Residual Chlorine (as CL ₂)	<0.05	1	mg/L(ppm)	APHA, 23 rd Ed., 2017, 4500-CL-64-72

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Note:

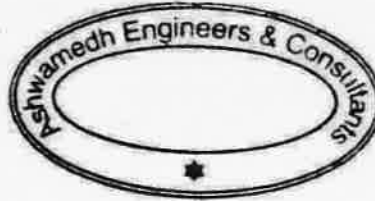
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TEST REPORT

Sample ID: E/10/21/0327	Report No. E/10/21/0327	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)				
1.	pH	6.52	-	IS 3025 (Part 8):1983
2.	Total Suspended Solids	74	mg/L	IS 3025 (Part 7): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	71	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	200	mg/L	APHA, 23 rd Ed. 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed. 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	<0.05	mg/L	APHA, 23 rd Ed. 2017, 4500-Cl-6.4-72


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Note:

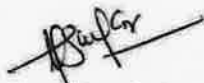
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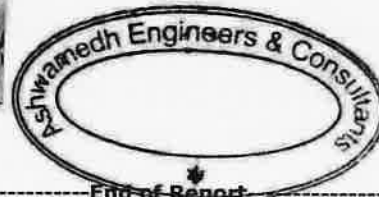
TEST REPORT

Sample ID: E/10/21/0328	Report No.: E/10/21/0328	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	pH	5.43	Not specified	-	IS 3025 (Part 11):1983
2.	Total Suspended Solids	46	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	21	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	90	100	mg/L	APHA, 23 rd Ed. 2017, 5220-B, 5-18
5.	Oil & Grease	<1	Not specified	mg/L	APHA, 23 rd Ed. 2017, 5520-B, 5-42



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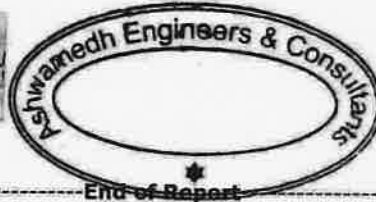


TEST REPORT

Sample ID: E/10/21/0328	Report No.: E/10/21/0328N	Report Date	02/11/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	28/10/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/10/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	01/11/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment, Subgroup: Waste Water (Sewage)					
1.	Free Residual Chlorine (as Cl ₂)	<0.05	1	mg/L(ppm)	APHA, 23rd Ed., 2017, 4500-Cl-G-4-72


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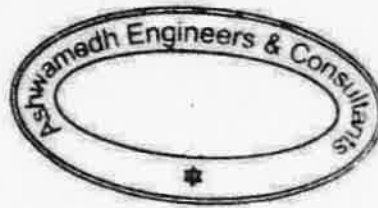


TEST REPORT

Sample ID: E/11/21/0242	Report No.: E/11/21/0242	Report Date	05/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	04/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.34	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	88	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	350	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	1000	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA 23 rd Ed. 5520-B, 5-47
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA 23 rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				


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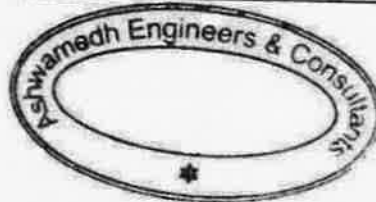
TEST REPORT

Sample ID: E/11/21/0243	Report No.: E/11/21/0243N	Report Date	05/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	30/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	04/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	0.86	1	mg/L(ppm)	APHA 23rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					

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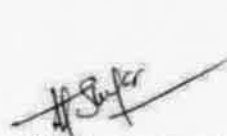
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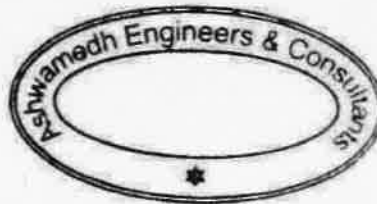
TEST REPORT

Sample ID: E/11/21/0243	Report No.: E/11/21/0243	Report Date	05/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	04/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	8.23	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	38	50	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	22	30	mg/L	IS 3025 (Part 4): 1983
4.	Chemical Oxygen Demand	90	100	mg/L	APHA, 23 rd Ed. 5220-B-5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B-5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					



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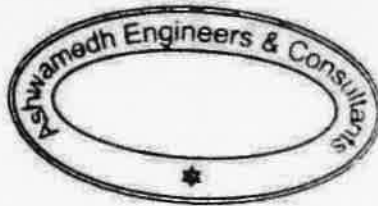
TEST REPORT

Sample ID: E/11/21/0244	Report No.: E/11/21/0244	Report Date	07/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.43	-	IS 3025 (Part 0)-1983
2.	Total Suspended Solids	74	mg/L	IS 3025 (Part 17)-1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	187	mg/L	IS 3025 (Part 44)-1993
4.	Chemical Oxygen Demand	440	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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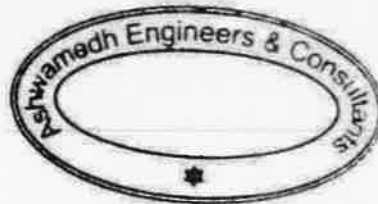


TEST REPORT

Sample ID: E/11/21/0245	Report No.: E/11/21/0245	Report Date	07/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.12	Not specified	-	IS 3025 (Part 0):1983
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part 07): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	4	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed. 5220-B, 5-48
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					


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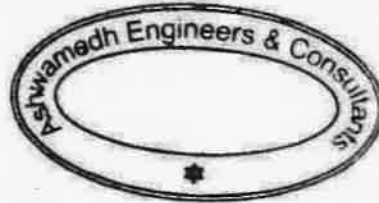
TEST REPORT

Sample ID: E/11/21/0245	Report No: E/11/21/0245N	Report Date	07/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA 23rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					

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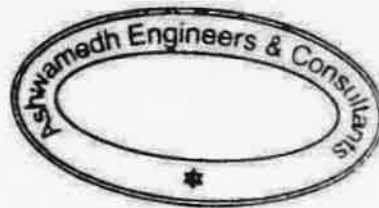


TEST REPORT

Sample ID: E/11/21/0246	Report No.: E/11/21/0246	Report Date	09/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	08/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.36	-	IS 3025 (Part 0):1983
2.	Total Suspended Solids	62	mg/L	IS 3025 (Part 0):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	247	mg/L	IS 3025 (Part 4):1983
4.	Chemical Oxygen Demand	600	mg/L	APHA 23 rd Ed. 5220-B, 5-46
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	BLQ (LOQ:0.05)	mg/L	APHA 23 rd Ed. 4500-Cl-G, 4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				


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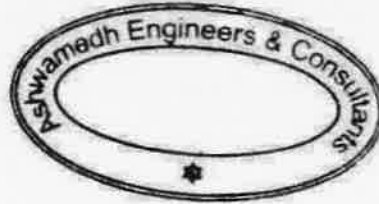


TEST REPORT

Sample ID: E/11/21/0247	Report No: E/11/21/0247	Report Date	09/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/11/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/11/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	08/12/2021
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.80	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	6	30	mg/L	IS 3025 (Part 44): 1983
4.	Chemical Oxygen Demand	20	100	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					


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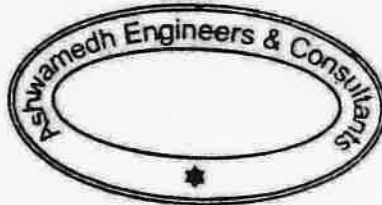
TEST REPORT

Sample ID: E/12/21/0305	Report No.: E/12/21/0305	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.73	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	48	mg/L	IS 3025 (Part II):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	150	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	400	mg/L	APHA, 23 rd Ed., 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed., 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed., 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

B. Shewale

Kavita Shewale
Section In-charge (Chemical)
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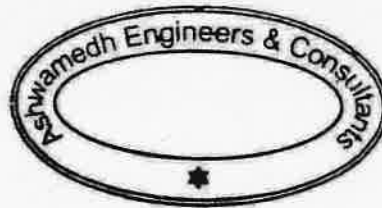
TEST REPORT

Sample ID: E/12/21/0306	Report No.: E/12/21/0306	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.86	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	32	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	24	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	90	100	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/12/21/0306 bears two Test Reports - E/12/21/0306 and E/12/21/0306N					

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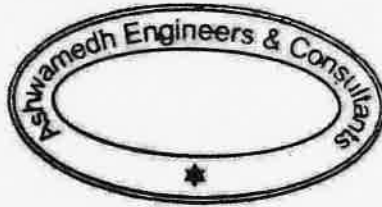
TEST REPORT

Sample ID: E/12/21/0306	Report No.: E/12/21/0306N	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23rd Ed., 4500-Cl-G,4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/12/21/0306 bears two Test Reports - E/12/21/0306 and E/12/21/0306N					

R. Shewale

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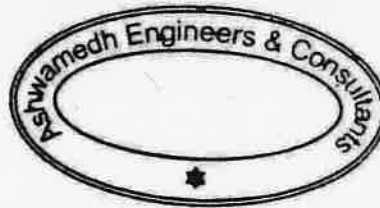
TEST REPORT

Sample ID: E/12/21/0307	Report No.: E/12/21/0307	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.60	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	128	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	437	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	1200	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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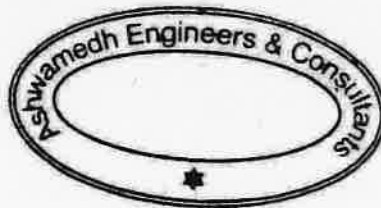
TEST REPORT

Sample ID: E/12/21/0308	Report No.: E/12/21/0308	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.71	Not specified	-	IS 3025 (Part I):1983
2.	Total Suspended Solids	12	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	8	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	30	100	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/12/21/0308 bears two Test Reports - E/12/21/0308 and E/12/21/0308N					

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Kavita Shewale
Section In-charge (Chemical)
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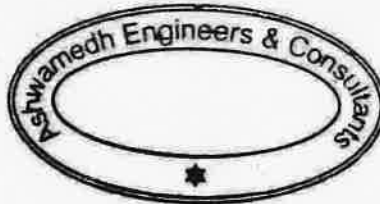
TEST REPORT

Sample ID: E/12/21/0308	Report No.: E/12/21/0308N	Report Date	29/12/2021
Name and Address of Customer	Mumbai International Airport Ltd. 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	25/12/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/12/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/12/2021
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/12/21/0308 bears two Test Reports - E/12/21/0308 and E/12/21/0308N					

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Kavita Shewale
Section In-charge (Chemical)
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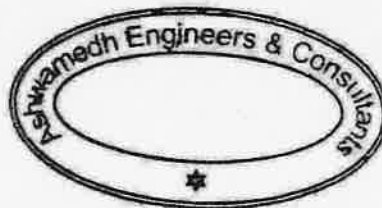


TEST REPORT

Sample ID: E/01/22/0341	Report No.: E/01/22/0341	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.80	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	28	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	56	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	200	mg/L	APHA, 23 rd Ed., 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed., 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed., 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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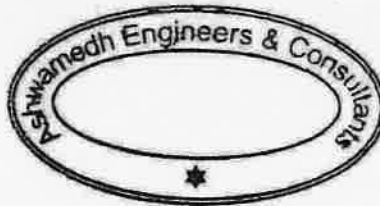


TEST REPORT

Sample ID: E/01/22/0342	Report No.: E/01/22/0342	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	9.26	Not specified	-	IS 3025 (Part 11):1983
2.	Total Suspended Solids	11	50	mg/L	IS 3025 (Part 7): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	19	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	80	100	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/01/22/0342 bears two Test Reports - E/01/22/0342 and E/01/22/0342N					

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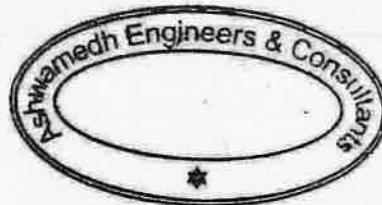
TEST REPORT

Sample ID: E/01/22/0342	Report No.: E/01/22/0342N	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	0.81	1	mg/L(ppm)	APHA, 23rd Ed., 4500-Cl-G,4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification					
Note: Sample ID E/01/22/0342 bears two Test Reports - E/01/22/0342 and E/01/22/0342N					



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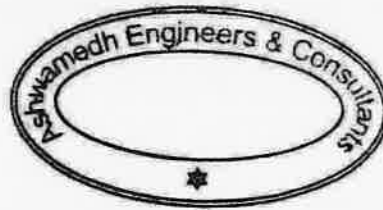


TEST REPORT

Sample ID: E/01/22/0343	Report No.: E/01/22/0343	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.66	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	128	mg/L	IS 3025 (Part I): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	560	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	1400	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-G, 4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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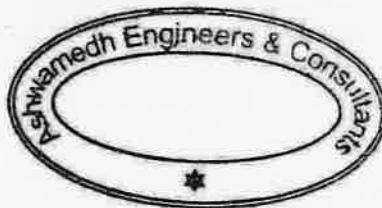


TEST REPORT

Sample ID: E/01/22/0344	Report No.: E/01/22/0344	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.48	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	8	50	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed. 5220-B, 5-1B
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/01/22/0344 bears two Test Reports - E/01/22/0344 and E/01/22/0344N					

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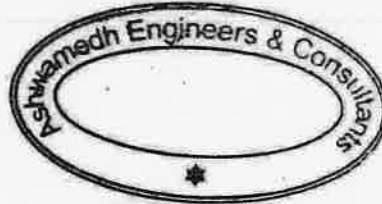
TEST REPORT

Sample ID: E/01/22/0344	Report No.: E/01/22/0344N	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23rd Ed. 4500-Cl-G,4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/01/22/0344 bears two Test Reports - E/01/22/0344 and E/01/22/0344N					

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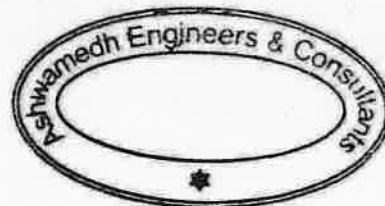


TEST REPORT

Sample ID: E/01/22/0345	Report No.: E/01/22/0345	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.44	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	62	mg/L	IS 3025 (Part I): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	352	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	1000	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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Note:

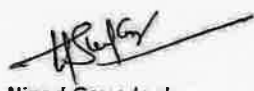
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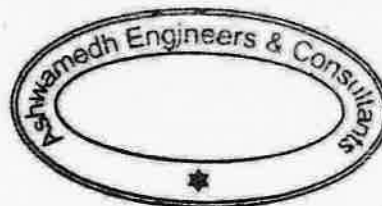


TEST REPORT

Sample ID: E/01/22/0346	Report No.: E/01/22/0346	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.65	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	09	50	mg/L	IS 3025 (Part I): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/01/22/0346 bears two Test Reports - E/01/22/0346 and E/01/22/0346N					


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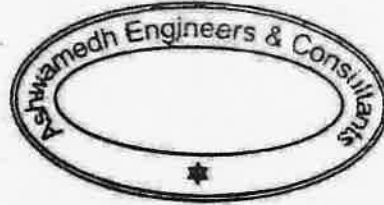
TEST REPORT

Sample ID: E/01/22/0346	Report No.: E/01/22/0346N	Report Date	01/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	27/01/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	27/01/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/01/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as CL ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23 rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/01/22/0346 bears two Test Reports - E/01/22/0346 and E/01/22/0346N					



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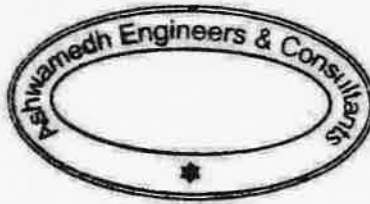
TEST REPORT

Sample ID: E/02/22/0247	Report No.: E/02/22/0247	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	7.02	-	IS 3025 (Part II): 1983
2.	Total Suspended Solids	58	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	78	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	280	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-G, 4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				



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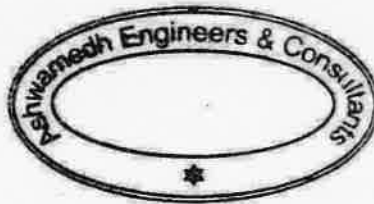
TEST REPORT

Sample ID: E/02/22/0248	Report No.: E/02/22/0248	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.23	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	25	50	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	19	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	70	100	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0248 bears two Test Reports - E/02/22/0248 and E/02/22/0248N					



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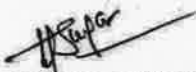




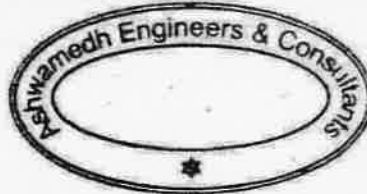
TEST REPORT

Sample ID: E/02/22/0248	Report No.: E/02/22/0248N	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	0.80	1	mg/L(ppm)	APHA 23rd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0248 bears two Test Reports - E/02/22/0248 and E/02/22/0248N					



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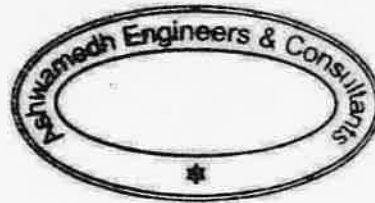
TEST REPORT

Sample ID: E/02/22/0249	Report No.: E/02/22/0249	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.60	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	94	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	315	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	800	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA 23 rd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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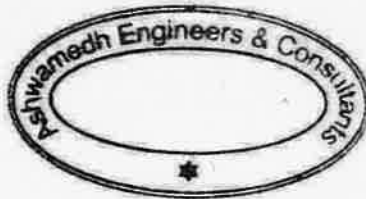
TEST REPORT

Sample ID: E/02/22/0250	Report No.: E/02/22/0250	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.70	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	BLQ (LOQ:5)	50	mg/L	IS 3025 (Part I):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	5	30	mg/L	IS 3025 (Part 4):1983
4.	Chemical Oxygen Demand	20	100	mg/L	APHA 23 rd Ed. 5220-B. 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B. 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0250 bears two Test Reports - E/02/22/0250 and E/02/22/0250N					

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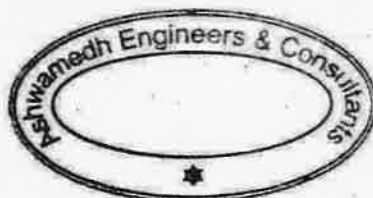


TEST REPORT

Sample ID: E/02/22/0250	Report No.: E/02/22/0250N	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA 23rd Ed. 4500-Cl-B-4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0250 bears two Test Reports - E/02/22/0250 and E/02/22/0250N					


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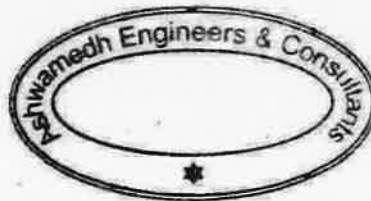


TEST REPORT

Sample ID: E/02/22/0251	Report No.: E/02/22/0251	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.76	-	IS 3025 (Part 1):1983
2.	Total Suspended Solids	87	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	76	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	280	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-G, 4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				


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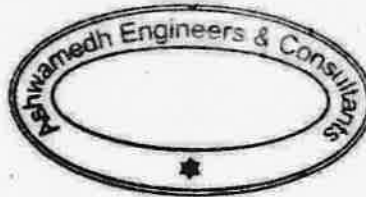
TEST REPORT

Sample ID: E/02/22/0252	Report No.: E/02/22/0252	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date: Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.21	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	12	50	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	5	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	20	100	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0252 bears two Test Reports - E/02/22/0252 and E/02/22/0252N					



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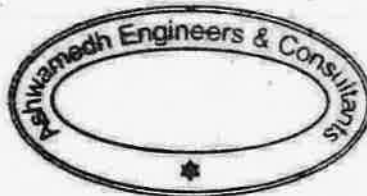


TEST REPORT

Sample ID: E/02/22/0252	Report No.: E/02/22/0252N	Report Date	25/02/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	21/02/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	21/02/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	24/02/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23rd Ed., 4500-Cl-G-4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/02/22/0252 bears two Test Reports - E/02/22/0252 and E/02/22/0252N					


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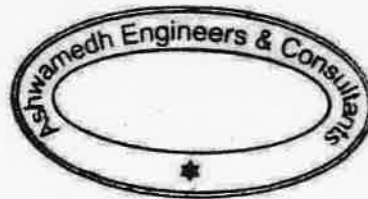


TEST REPORT

Sample ID: E/03/22/0432	Report No.: E/03/22/0432	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.80	-	IS 3025 (Part II): 1983
2.	Total Suspended Solids	34	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	45	mg/L	IS 3025 (Part 44): 1983
4.	Chemical Oxygen Demand	160	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA 23 rd Ed. 4500-Cl-G4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				


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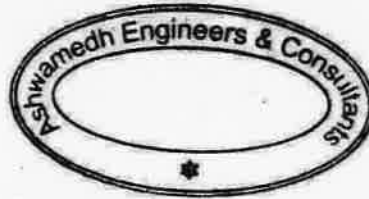


TEST REPORT

Sample ID: E/03/22/0433	Report No.: E/03/22/0433	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	6.79	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	44	50	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	15	30	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	60	100	mg/L	APHA 23 rd Ed. 5220-B 5-48
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0433 bears two Test Reports - E/03/22/0433 and E/03/22/0433N					


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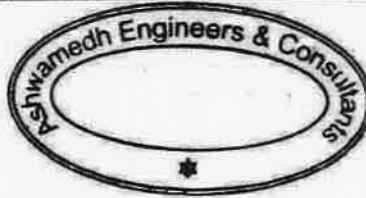
TEST REPORT

Sample ID: E/03/22/0433	Report No.: E/03/22/0433N	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 2 nd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0433 bears two Test Reports - E/03/22/0433 and E/03/22/0433N					

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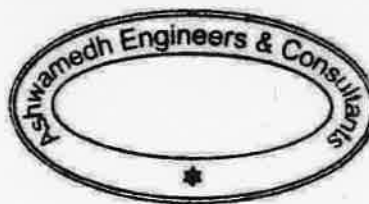
TEST REPORT

Sample ID: E/03/22/0434	Report No.: E/03/22/0434	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.62	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	82	mg/L	IS 3025 (Part 07): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	280	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	700	mg/L	APHA, 23 rd Ed. 522B-B, 5-48
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-G, 4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				

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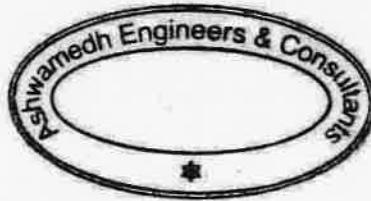


TEST REPORT

Sample ID: E/03/22/0435	Sample ID: E/03/22/0435	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.53	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	32	50	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	7	30	mg/L	IS 3025 (Part 44): 1983
4.	Chemical Oxygen Demand	30	100	mg/L	APHA 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0435 bears two Test Reports - E/03/22/0435 and E/03/22/0435N					


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



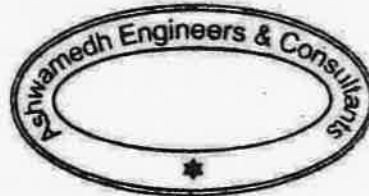
TEST REPORT

Sample ID: E/03/22/0435	Report No.: E/03/22/0435N	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA, 23rd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0435 bears two Test Reports - E/03/22/0435 and E/03/22/0435N					

(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.





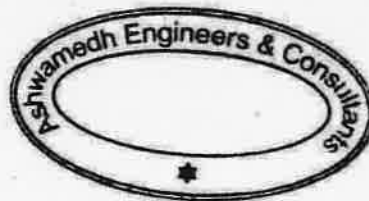
TEST REPORT

Sample ID: E/03/22/0436	Sample ID: E/03/22/0436	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.41	-	IS 3025 (Part II)-1983
2.	Total Suspended Solids	146	mg/L	IS 3025 (Part II)-1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	341	mg/L	IS 3025 (Part 44)-1993
4.	Chemical Oxygen Demand	860	mg/L	APHA, 23 rd Ed. 5220-B, 5-18
5.	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23 rd Ed. 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	mg/L	APHA, 23 rd Ed. 4500-Cl-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				



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.





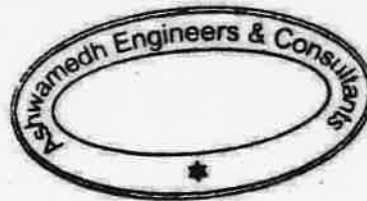
TEST REPORT

Sample ID: E/03/22/0437	Report No: E/03/22/0437	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.15	Not specified	-	IS 3025 (Part II): 883
2.	Total Suspended Solids	16	50	mg/L	IS 3025 (Part II): 884
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 883
4.	Chemical Oxygen Demand	10	100	mg/L	APHA 23 rd Ed. 5220-B, 5-B
5.	Oil & Grease	BLQ (LOQ:1)	Not specified	mg/L	APHA 23 rd Ed. 5520-B, 5-42
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0437 bears two Test Reports - E/03/22/0437 and E/03/22/0437N					

Ninad

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).
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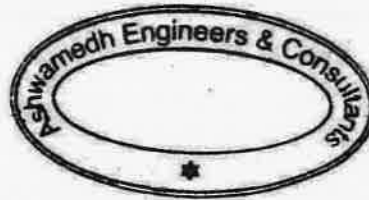
TEST REPORT

Sample ID: E/03/22/0437	Report No.: E/03/22/0437N	Report Date	06/03/2022
Name and Address of Customer	Mumbai International Airport Ltd. 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	31/03/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/03/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	05/04/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5 th CAC-1811001379 Dated.29.11.2018			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	1	mg/L(ppm)	APHA 2nd Ed. 4500-Cl-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/0437 bears two Test Reports - E/03/22/0437 and E/03/22/0437N					

Ninad Soundankar

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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

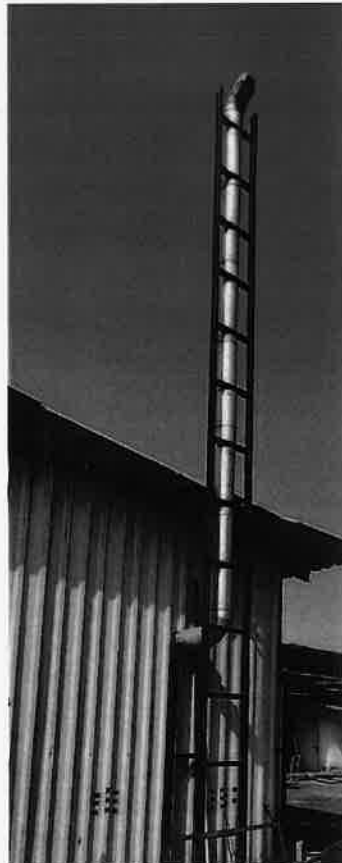
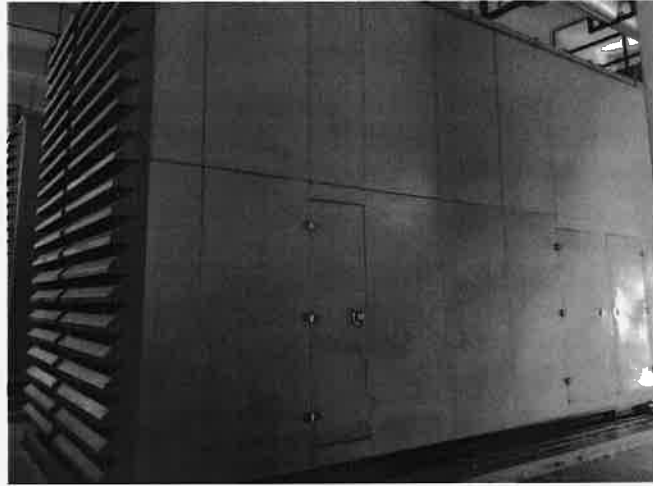
Note:

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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.



Annexure -05 Photos of DG sets & Acoustic enclosures of DG sets.

Annexure - 5-Photos of DG Set & Enclosure and Stack





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

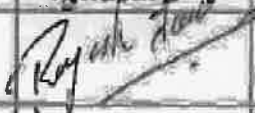




Activity	Name	Signature	Date
Prepared By:	Rajesh Jadhav DGM- Airside Safety		
Recommended by:	Vinayak Sohani Documentation Lead.		
	Jayant Dasgupta AVP - Airside Management		
	Prasad Nair MR-IMS		13/11/21
Approved by	Prabhat Mahapatra EVP - Operations		13/11/21

TABLE OF CONTENTS

S. NO.	CONTENTS	PAGE NUMBER	REVISION STATUS
1	PURPOSE	03	
2	SCOPE	03	
3	OBJECTIVE	03	
4	RESPONSIBILITY	03	YES
5	DEFINITIONS & ABBREVIATIONS	03	YES
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

Date	Rev. No.	Page No.	Revision Description
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 drawing.

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



Confederation of Indian Industry

Indian Green Building Council (IGBC)

hereby certifies that

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.**

adani

 **Chhatrapati Shivaji Maharaj**
INTERNATIONAL AIRPORT
MUMBAI

Ref.: MIAL/ENV/21/22

Date: December 9, 2021

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. : 8th 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: 2nd June 2017, by MoEF&CC, GoI.

Dear Sir,

Reference may please be made to Environmental Clearance No. 10-5/2007-IA-III dated 2nd 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 October 2020 to March 2021.

As per the MoEF&CC notification SO 5845 (E) dated 28th 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


Dr. Ajay Mehrotra
Senior Vice President – Environment & Sustainability

Encl: 8th half yearly Environmental compliance report & Annexure 1-Monitoring reports

CC: 1. Zonal office, CPCB, Vadodara

2. Regional Officer, MPCB Mumbai

Mumbai International Airport Ltd
Chhatrapati Shivaji Maharaj International Airport
1st floor, Terminal 1B, Santacruz (E)
Mumbai 400 099
Maharashtra, India
CIN: U45200MH2006PLC16064

Tel +91 22 6685 0900/0901
Fax +91 22 6685 2059
adaniairports@adani.com
www.csmia.adaniairports.com

Registered Office: Office of the Airport Director, CSMI Airport, Terminal 1B, Mumbai 400 099, Maharashtra, India

**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)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	0.00	0
Domestic	7100.00	2379.6
All others	0.00	0
Total	7100.00	2379.6

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Sewage generation at CSMIA	6615	1524.8	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Water consumption per passenger	0.029	0.078	

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
NIL	0	0	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel for DG set	14760	119.4	

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
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

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
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

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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

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

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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

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

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
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

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
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.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NIL	NIL	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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