

Ref: MIAL/ENV/22/23

1st Dec 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 status 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 & 3rd April 2007.

With reference to above subject please find enclosed compliance status of EC conditions for the period from April 22 to October 22.

We could not upload compliance status on PARIVESH portal because of technical error on portal therefore this is being submitted through email.

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

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Environmental Clearance Six Monthly Compliance Report

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

of

**Chhatrapati Shivaji Maharaj International Airport
(CSMIA)**

**For
Period of April- 2022 - September 2022**

SIX MONTHLY COMPLIANCE REPORT
(Period of April to September of FY 22 -23)

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

Earlier EC was granted in 2007 for expansion and modernization of Chhatrapati Shivaji Maharaj International Airport (CSMIA), M/s Mumbai International Airport limited (MIAL) for phase – I and Phase-II components covering areas 16,39,759 sq. mts. and 8,02,145 sq. mts. respectively. The new EC for "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. 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 while transfer, loading & unloading of soil and construction material.
(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 do not leak during transportation. 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 as per condition.
(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 recycling of treated water.
(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 manufactures recommendation. Noise level monitoring in and around airport premises is conducted regularly and are observed in 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 and being complied, restrictions are implemented.
(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 to authorized locations.
(xiii)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulfur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board (SPCB).	Complied DG sets are used for emergency backup purpose only. Enclosures, stack, and low sulfur diesel is being used, near runway DG stack are provided as per aviation safety. Annexure -05 of photos DG sets.
(xiv)	Aircraft maintenance, sensitivity of the location where activities are undertaken and control of runoff of potential contaminants, chemicals etc. shall be properly implemented and reported.	Contingency plan for spills prevention is in place. Refer Annexure -06 Contingency plan for spills prevention.
(xv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. Oil interceptors are commissioned to contain spills. Annexure- 07 oil interceptors drawing.

(xvi)	The runoff from paved structures like runways, taxiways can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Complied. Oil interceptors are commissioned in compliance of condition.
(xvii)	Storm water drains are to be built for discharging storm water from airfield to avoid flooding/water logging in project area during monsoon season/cloud bursts.	Complied. Stormwaters drain system is built for discharging storm water.
(xviii)	Rainwater harvesting for roof run-off and surface runoff, as plan submitted should be implemented. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter, Oil & grease.	Rainwater recharge pits have been constructed at airside and near terminal buildings. 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 1.58 MLD water sourced from MCGM during the period of April-22 to Sep 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 1285 KLD sewage generated in FY 22-23. 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. Parameters are being monitored by NABL approved third party laboratory and continuous noise & ambient air quality monitoring systems. 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	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

	vegetable oils (from caterers) shall be carried out.	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 stage itself and at the time of replacement also energy efficient fittings are being considered. Terminal-2 is awarded with Platinum Rating Facility in existing building project category by CII. Used CFL/TFL generated will be disposed to e-waste 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 has developed Rainwater harvesting facility and constructed toilets 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 SPCB, State Government and any other statutory authority	Noted. MPCB has granted Consent to Establish vide letter no BO/CAC-cell/Format1.0/CAC/UAN No. 0000136644 /CE /2208000664 dated 15.08.2022 and conditions 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	Noted

	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.	
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (daytime) and 70dBA (night-time)	Noted and complied. Regular ambient noise monitoring is being carried out in and around airport area. 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 laboratory for testing water parameters is operational and continuous ambient air and ambient noise levels are being monitored at 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 stipulated conditions. A six-monthly compliance report and the monitored data along with the statistical interpretation shall be submitted to them regularly.	Noted. monitored data is being submitted along with six monthly compliance report. Last compliance report was submitted on 29 th July 2022, 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	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.

	be put on the website of the company the proponent.	
(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/22/11 dated: July 29 th , 2022. 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 2021-22 is submitted on MPCB portal on 28 th September 2022. It is available also available on the website - https://csmia.adaniairports.com/all-reports.aspx >>Environment Compliance Report Refer Annexure – 10 Environment statement Form- V for FY 21-22.
(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 be forwarded to the Regional Office of this Ministry.	Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 th December 2017.
(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 - 1 Aerodrome License



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.

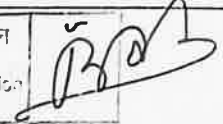
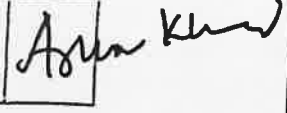
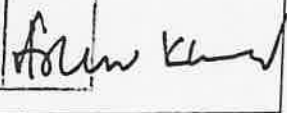


Date of issue: 01st November 2018
New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

VALIDITY OF THE LICENSEChhatrapati Shivaji Maharaj International Airport, Mumbai

(Name & Place of Aerodrome)

FROM	TO	SIGNATURE
03.05.2018	02.05.2020	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>महानिदेशक नागर विमानन भारत Director General of Civil Aviation India</p> </div> <div style="text-align: center;">  </div> </div>
03 MAY 2020	02 MAY 2022	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>महानिदेशक नागर विमानन भारत Director General of Civil Aviation India</p> </div> <div style="text-align: center;">  </div> </div>
03 MAY 2022	02 MAY 2024	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>महानिदेशक नागर विमानन भारत Director General of Civil Aviation India</p> </div> <div style="text-align: center;">  </div> </div>

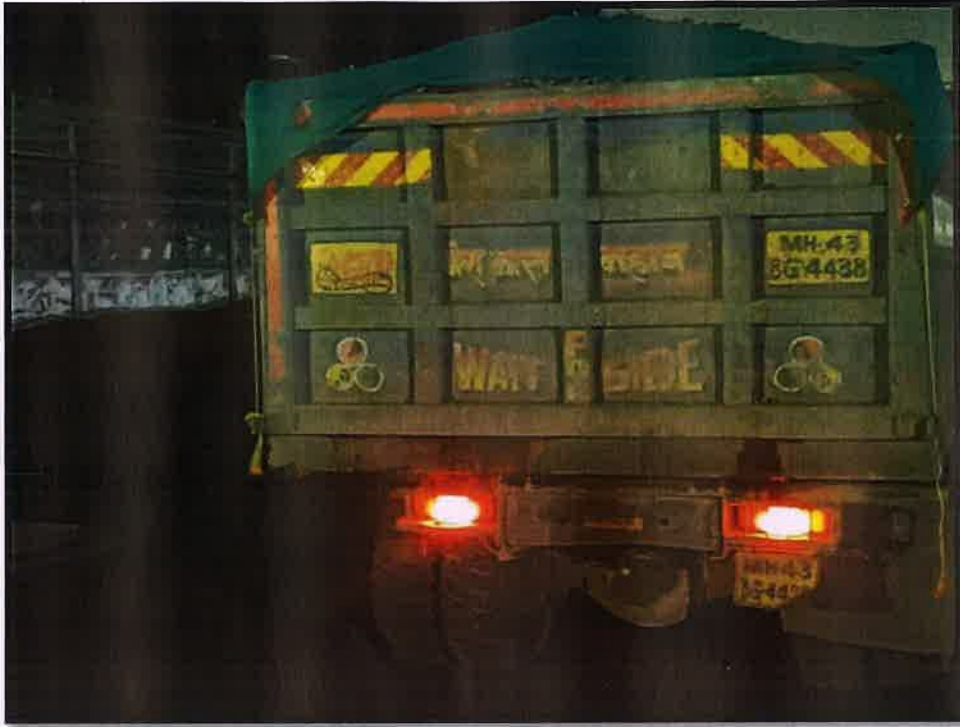
Annexure - 2 Barricading practices

Annexure - 02 Barricading practices at Construction site



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

Annexure -03 – Construction Material Trucks are covered with tarpaulin



**Annexure - 4 Environment conditions monitoring
reports**

NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/22/1153	Report No.: N/04/22/1153	Report Date	26/04/2022
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	21/04/2022 to 21/04/2022
Calibration Certificate	2021/08/12/05	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	AEC/EQ/404

Chemical Testing; Group: Atmospheric Pollution

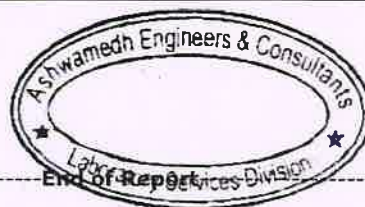
Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	65.4	61.9	68.7	64.4	62.6	64.8	CPCB Protocol for Ambient Level Noise Monitoring. July AEC/L/SAP/SAM/356 36. Issue no.4. Issue date 01.04.2018
2	STP Terminal- 1	66.3	63.2	68.5	64.4	62.5	64.8	
3	CCR-2	66.9	62.5	67.4	65.0	64.1	69.4	
4	Apron Control	66.2	64.6	69.5	63.0	58.5	64.5	
5	6 No Gate (Sahar)	66.7	64.2	69.4	62.8	60.1	64.1	
6	Lima 8	67.2	64.5	69.4	65.1	63.5	64.9	
7	Runway 14 End	67.5	63.1	69.5	62.3	60.4	63.8	
8	Project Office (Sahar)	65.4	63.8	67.4	63.6	61.5	64.0	
9	Cargo 4D	66.4	63.6	68.5	63.9	62.2	64.7	
10	OWC Kurla	65.7	60.4	68.7	63.1	62.5	64.6	

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


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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.



NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/05/22/1042	Report No: N/05/22/1042	Report Date	01/06/2022
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	26/05/2022 to 26/05/2022
Calibration Certificate	2021/08/12/05	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	AEC/EQ/404

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	63.9	60.4	64.7	60.2	58.7	63.4	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/356 36, Issue no.4, Issued date 01.04.2018
2	STP Terminal- 1	63.4	62.8	68.9	61.5	59.7	64.1	
3	CCR-2	64.1	61.9	65.7	62.4	61.5	65.9	
4	Apron Control	64.0	61.5	65.9	62.4	61.3	64.2	
5	6 No Gate (Sahar)	64.7	62.2	68.5	61.5	60.8	63.0	
6	Lima 8	65.2	61.4	68.5	62.4	62.8	64.2	
7	Runway 14 End	65.7	62.5	67.4	61.4	59.7	62.6	
8	Project Office (Sahar)	64.2	60.1	67.4	62.5	60.2	68.2	
9	Cargo 4D	64.1	62.7	67.5	62.5	60.1	63.7	
10	OWC Kuria	65.0	62.9	67.2	61.8	59.7	63.8	

Limit

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

Serial Number	Industry	Limits in dB (A) weighted scale	
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112	Airport (Busy Airport)	70	65


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.





NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/0757	Report No.: N/06/22/0757	Report Date	30/06/2022
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	23/06/2022 to 23/06/2022
Calibration Certificate	2021/08/12/05	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	AEC/EQ/404

Chemical Testing; Group: Atmospheric Pollution

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4	Apron Control	66.3	61.7	68.2	63.4	60.9	64.7	
5	6 No Gate (Sahar)	66.2	63.6	68.7	63.2	61.5	64.8	
6	Lima 8	67.8	64.8	69.4	63.1	61.4	63.7	
7	Runway 14 End	65.7	60.2	68.6	63.1	61.5	64.0	
8	Project Office (Sahar)	67.5	64.1	69.3	62.2	60.4	63.5	
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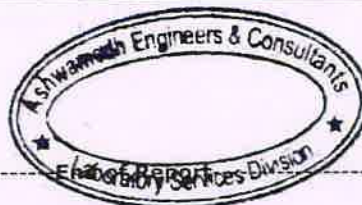
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Serial Number	Industry	Limits in dB (A) weighted scale	
		Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
112	Airport (Busy Airport)	70	65

(Signature)

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



Note:

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/08/22/033	Report No.: N/08/22/033	Report Date	07/08/2022
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	As Per Verbal Discussion	Date of Monitoring	29/07/2022 to 30/07/2022
Calibration Certificate	2021/08/12/05	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0	Instrument ID	AEC/EQ/404

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	64.4	60.1	67.9	63.2	59.7	64.5	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/35G 36, Issue no.4, Issue date 01.04.2018
2	STP Terminal- 1	66.3	63.4	68.9	64.7	62.1	64.5	
3	CCR-2	66.7	61.5	66.3	64.2	60.7	64.9	
4	Apron Control	65.1	63.2	68.7	64.7	58.5	64.6	
5	6 No Gate (Sahar)	67.2	63.5	69.3	63.7	60.2	64.9	
6	Lima 8	66.3	63.2	67.5	64.7	62.8	65.7	
7	Runway 14 End	67.5	63.1	68.2	63.5	61.7	65.3	
8	Project Office (Sahar)	66.2	63.5	67.8	63.8	62.5	65.7	
9	Cargo 4D	65.4	63.6	68.9	64.2	61.7	65.1	
10	OWC Kurla	66.4	62.5	68.7	62.1	58.7	63.5	

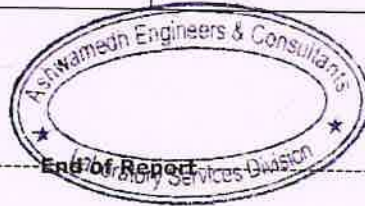
Limit

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)
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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/08/22/0306	Report No.: N/08/22/0306	Report Date	30/08/2022
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	PO.NO. 5700313365 Date. 12.08.2022	Date of Monitoring	23/08/2022 to 24/08/2022
Calibration Certificate	2021/08/12/05	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/2205000810 Date.13.05.2022	Instrument ID	AEC/EQ/404

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	63.4	69.7	64.4	63.7	65.1	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	66.8	63.9	68.7	64.4	63.4	64.9	
3	CCR-2	66.6	61.8	69.4	63.6	62.4	64.7	
4	Apron Control	67.5	64.3	69.8	63.7	62.5	64.9	
5	6 No Gate (Sahar)	66.6	63.5	70.0	62.6	60.3	64.8	
6	Lima 8	67.2	65.0	69.4	63.8	62.8	64.8	
7	Runway 14 End	67.5	65.0	70.0	62.2	60.4	63.2	
8	Project Office (Sahar)	65.5	61.4	68.7	63.6	62.1	65.0	
9	Cargo 4D	67.4	65.0	69.4	63.2	61.8	64.7	
10	OWC Kurla	65.8	61.2	68.7	63.2	61.4	65.0	

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)
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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/22/0812	Report No: AA/04/22/0812	Report Date	03/05/2022
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	21/04/2022 to 22/04/2022
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	23/04/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	23/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/05/2022
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 9.7 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):67/51%	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

Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	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	41	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	10	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 10-3.1 6 3.2
Carbon Monoxide (CO)	1.20	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.

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/04/22/0813	Report No.: AA/04/22/0813	Report Date	03/05/2022
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	21/04/2022 to 22/04/2022
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	23/04/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	23/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/05/2022
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 9.1 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 72/63%	Temperature (Max./Min.): 32/29°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method

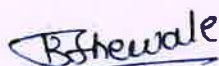
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.3	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}	9	60	µg/m ³	CPCB Guideline, Volume 136/2012-13, Page No.15-2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3J & 3.2
Carbon Monoxide (CO)	1.67	4	mg/m ³	CPCB Guidelines: 37/2012-13, Page no.16
Ammonia (NH ₃)	24.3	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

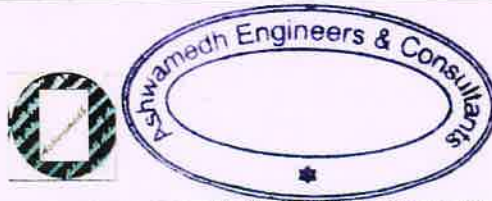
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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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Section In-charge (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/22/0814	Report No. AA/04/22/0814	Report Date	03/05/2022
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	21/04/2022 to 22/04/2022
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	23/04/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	23/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/05/2022
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 10.7 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 70/62%	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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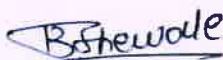
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.5	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}	5	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 10-3.1 & 3.2
Carbon Monoxide (CO)	1.79	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	37.1	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

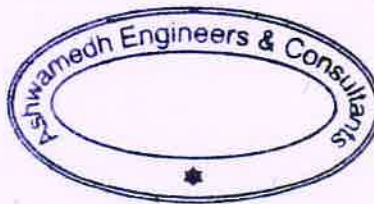
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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/04/22/0815	Report No.: AA/04/22/0815	Report Date	03/05/2022
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	21/04/2022 to 22/04/2022
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	23/04/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	23/04/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	02/05/2022
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-W	Relative Humidity (Max./ Min.): 67/58%	Temperature (Max./Min.): 31/26°C	Duration of Survey 24 h
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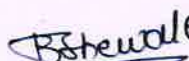
Parameter	Results	NAAQS # 2009	Unit	Method
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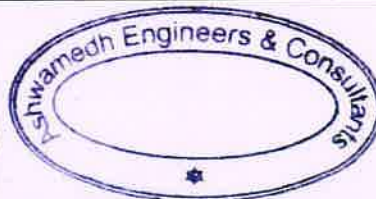
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	4.12	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.7	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}	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 6 3.2
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	25.4	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
Section In-charge (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/22/01	Report No.: AA/08/22/01	Report Date	06/08/2022
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	29/07/2022 to 30/07/2022
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	01/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	01/08/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/08/2022
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 km/h	Wind Direction W	Relative Humidity (Max./ Min.): 74/67%	Temperature (Max./Min.): 31/26°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)	4.87	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	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}	10	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 10-3.1 & 3.2
Carbon Monoxide (CO)	1.47	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

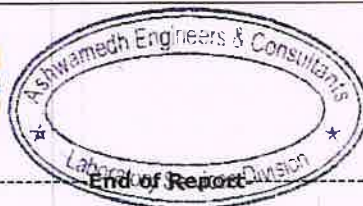
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

[Signature]

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/22/02	Report No.: AA/08/22/02	Report Date	06/08/2022
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	29/07/2022 to 30/07/2022
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	01/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	01/08/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/08/2022
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/JAN No. 0000046050/5 th CAC-1811001379 Dated 29.11.2018			

Meteorological Data / Environmental Conditions

Average Wind velocity 9 km/h	Wind Direction W	Relative Humidity (Max./ Min.):74/67%	Temperature (Max./Min.):31/26°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)	5.10	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	60	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	CPCB Guideline. Volume L36/2012-13. Page No.15-2013
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)	1.15	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.

[Signature]

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/22/03	Report No.: AA/08/22/03	Report Date	06/08/2022
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	29/07/2022 to 30/07/2022
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	01/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	01/08/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/08/2022
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 9 km/h	Wind Direction W	Relative Humidity (Max./ Min.):74/67%	Temperature (Max./Min.):31/26°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

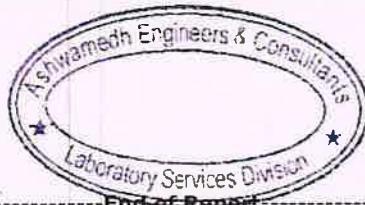
Sulphur Dioxide (SO ₂)	4.87	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.57	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	9	60	µg/m ³	CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.76	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.: D4 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/08/22/04	Report No.: AA/08/22/04	Report Date	06/08/2022
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	29/07/2022 to 30/07/2022
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	01/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	01/08/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/08/2022
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 9 km/h	Wind Direction W	Relative Humidity (Max./ Min.): 74/67%	Temperature (Max./Min.): 31/26°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)	4.72	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	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}	10	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/D10 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.45	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.


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/22/0880	Report No: AA/05/22/0880	Report Date	01/06/2022
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	24/05/2022 to 25/05/2022
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	26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/05/2022
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 9.1 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):68/55%	Temperature (Max./Min.):31/28°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)	4.27	80	µg/m ³	IS 5482 (Part 2): 2004
Nitrogen Dioxide (NO ₂)	11.3	80	µg/m ³	IS 5482 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	44	100	µg/m ³	IS 5482 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	9	60	µg/m ³	CPCB Guideline, Volume 1.35/2012-13, Page No.15.2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-95/010 - Compendium Method 80-31 & 32
Carbon Monoxide (CO)	1.74	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	AEC/CL/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/05/22/0881	Report No: AA/05/22/0881	Report Date: 01/06/2022
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: 24/05/2022 to 25/05/2022
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: 26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis: 26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis: 31/05/2022
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. 000046050/5 th CAC-1811001379 Dated 29.11.2018		

Meteorological Data / Environmental Conditions

Average Wind velocity 8.6 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 66/54%	Temperature (Max./Min.): 32/29°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)	6.33	80	µg/m ³	IS 5882 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10	80	µg/m ³	IS 5882 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5882 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	10	60	µg/m ³	CPCB Guidelines, 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)	1.98	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	NEC/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/05/22/0882	Report No: AA/05/22/0882	Report Date	01/06/2022
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	24/05/2022 to 25/05/2022
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	26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/05/2022
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 8.4 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):67/54%	Temperature (Max./Min.):32/27°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)	6.94	80	µg/m ³	IS 5082 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.1	80	µg/m ³	IS 5082 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	35	100	µg/m ³	IS 5082 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	6	60	µg/m ³	CPCB Guidelines, 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)	1.41	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.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/22/0883	Report No. AA/05/22/0883	Report Date	01/06/2022
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	24/05/2022 to 25/05/2022
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	26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/05/2022
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 8.8 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.):69/56%	Temperature (Max./Min.):32/29°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)	4.81	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.3	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	57	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	CPCB Guidelines, 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)	1.43	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.



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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/22/0880	Report No.: AA/05/22/0880	Report Date	01/06/2022
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	24/05/2022 to 25/05/2022
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	26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/05/2022
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 9.1 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 68/55%	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)	4.27	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.3	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	CPCB Guidelines, 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 10-3J & 3.2
Carbon Monoxide (CO)	1.74	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.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/22/0881	Report No: AA/05/22/0881	Report Date: 01/06/2022
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: 24/05/2022 to 25/05/2022
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: 26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis: 26/05/2022
Order Reference	W. O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis: 31/05/2022
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 8.6 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):66/54%	Temperature (Max./Min.):32/29°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)	6.33	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10	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}	10	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)	1.98	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.

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/05/22/0882	Report No. AA/05/22/0882	Report Date	01/06/2022
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	24/05/2022 to 25/05/2022
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	26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	31/05/2022
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 8.4 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):67/54%	Temperature (Max./Min.):32/27°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)	6.94	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	35	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	CPCB Guidelines, 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)	1.41	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.

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/05/22/0883	Report No: AA/05/22/0883	Report Date: 01/06/2022
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: 24/05/2022 to 25/05/2022
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: 26/05/2022
Sampling Procedure	As per method reference	Date-Start of Analysis: 26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis: 31/05/2022
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-181.1001379 Dated 29.11.2018		

Meteorological Data / Environmental Conditions

Average Wind velocity 8.8 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 69/56%	Temperature (Max./Min.): 32/29°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)	4.81	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.3	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	57	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) 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 10-3.1 6 3.2
Carbon Monoxide (CO)	1.43	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.

K. 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/08/22/0302	Report No.: AA/08/22/0302	Report Date	30/08/2022
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	23/08/2022 to 24/08/2022
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	25/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/08/2022
Order Reference	S.O. No. 5700313365 dated 12.08.2022	Date-Completion of Analysis	29/08/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 9 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 72/65%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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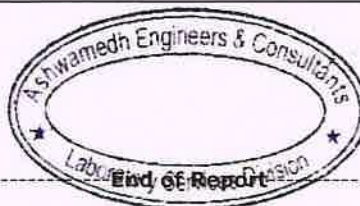
Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	5.26	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	9.41	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	39	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	CPCB Guideline, Volume I, 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)	1.27	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.

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/22/0303	Report No.: AA/08/22/0303	Report Date	30/08/2022
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	23/08/2022 to 24/08/2022
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	25/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/08/2022
Order Reference	S.O. No. 5700313365 dated 12.08.2022	Date-Completion of Analysis	29/08/2022
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3935A
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 9 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 72/65%	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)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.19	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	51	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	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)	2.18	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.

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/22/0304	Report No.: AA/08/22/0304	Report Date	30/08/2022
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	23/08/2022 to 24/08/2022
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	25/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/08/2022
Order Reference	S.O. No. 5700313365 dated 12.08.2022	Date-Completion of Analysis	29/08/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3938A
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 9 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):70/65%	Temperature (Max./Min.):29/26°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)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	35	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	CPCB Guideline. Volume 136/2012-13. Page No.15-2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.72	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

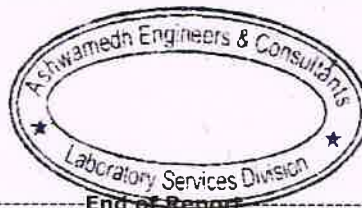
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

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/08/22/0305	Report No.: AA/08/22/0305	Report Date	30/08/2022
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	23/08/2022 to 24/08/2022
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	25/08/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/08/2022
Order Reference	S.O. No. 5700313365 dated 12.08.2022	Date-Completion of Analysis	29/08/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020-21/FLOW/3934A
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 8 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 72/66%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
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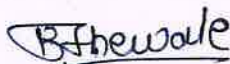
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	5.10	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	11.3	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 2.5 µm) or PM _{2.5}	10	60	µg/m ³	CPCB Guideline, Volume 136/2012-13, 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)	1.28	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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Section In-charge (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/06/22/0682	Report No.: AA/06/22/0682	Report Date	30/06/2022
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	23/06/2022 to 24/06/2022
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	25/06/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	29/06/2022
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 km/h	Wind Direction S-E	Relative Humidity (Max./ Min.): 73/64%	Temperature (Max./Min.): 32/28°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)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	36	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	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/D10 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:20)	400	µg/m ³	AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

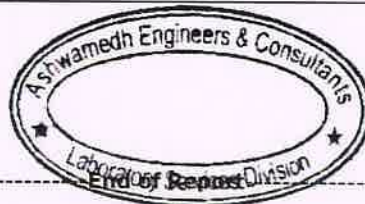
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/06/22/0683	Report No.: AA/06/22/0683	Report Date	30/06/2022
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	23/06/2022 to 24/06/2022
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	25/06/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	29/06/2022
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 8.5 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):70/61%	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)	4.72	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	27	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/D10 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.65	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

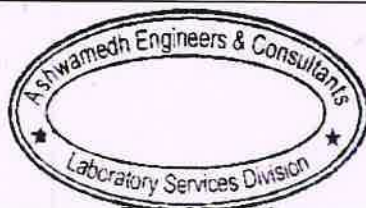
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

B. Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/06/22/0684	Report No.: AA/06/22/0684	Report Date	30/06/2022
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	23/06/2022 to 24/06/2022
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	25/06/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	29/06/2022
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 9.6 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.):72/63%	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)	BLQ (LOQ:4)	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}	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 10-3.1 & 3.2
Carbon Monoxide (CO)	1.85	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

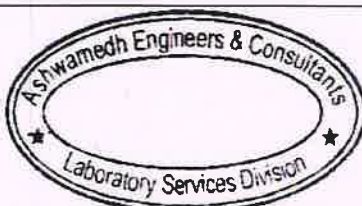
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/06/22/0685	Report No.: AA/06/22/0685	Report Date	30/06/2022
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	23/06/2022 to 24/06/2022
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	25/06/2022
Sampling Procedure	As per method reference	Date-Start of Analysis	25/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	29/06/2022
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 9.3 km/h	Wind Direction S-W	Relative Humidity (Max./ Min.): 68/59%	Temperature (Max./Min.): 32/27°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)	5.41	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.95	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	52	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	10	60	µg/m ³	CPCB Guideline, Volume I, 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)	2.04	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

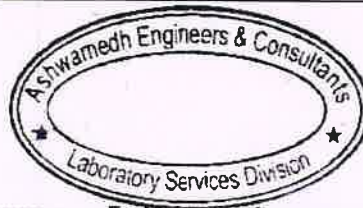
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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.

Kavita Shewale

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/22/5573	Report No. AA/09/22/5573	Report Date	24/09/2022
Name & Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	15/09/2022 to 16/09/2022
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. Filter paper PM _{2.5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	17/09/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	24/09/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936A
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 11 km/h	Wind Direction SW	Relative Humidity (Max./Min.):86/80%	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)	6.3	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	12.7	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	52	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22	60	µg/m ³	CPCB Guidelines, Volume I, 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)	1.03	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page no 35: 2013

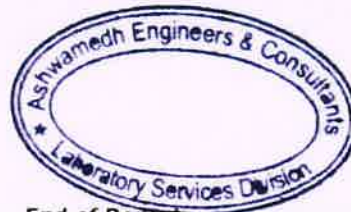
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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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Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID	AA/09/22/5574	Report No.	AA/09/22/5574	Report Date	24/09/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.				
Sampling done by	Laboratory	Sample Description/Type	Ambient Air		
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	15/09/2022 to 16/09/2022		
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. Filter paper PM _{2.5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	17/09/2022		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	17/09/2022		
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	24/09/2022		
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A		
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022					

Meteorological Data / Environmental Conditions

Average Wind velocity 11 km/h	Wind Direction SW	Relative Humidity (Max./Min.):86/80%	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)	7.3	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	10.9	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	56	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20	60	µg/m ³	CPCB Guidelines, Volume I, 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)	1.14	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page no 35: 2013

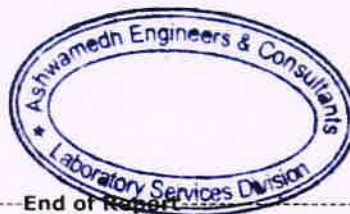
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/22/5575	Report No: AA/09/22/5575	Report Date	24/09/2022
Name & Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description: Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	15/09/2022 to 16/09/2022
Sample Quantity / Packing	PM ₁₀ : Lead: 1 x 3 no. Filter paper PM _{2.5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	17/09/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	24/09/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022.			

Meteorological Data / Environmental Conditions

Average Wind velocity 11 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/80%	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)	8.4	80	µg/m ³	IS 5182 (Part 2) 2001
Nitrogen Dioxide (NO ₂)	17.4	80	µg/m ³	IS 5182 (Part 6) 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	61	100	µg/m ³	IS 5182 (Part 23) 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	28	60	µg/m ³	CPCB Guidelines, Volume I, 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)	1.51	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page no.35, 2013

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/09/22/5576	Report No: AA/09/22/5576	Report Date	24/09/2022
Name & Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	15/09/2022 to 16/09/2022
Sample Quantity/ Packing	PM ₁₀ : Lead: 1 x 3 no. Filter paper PM _{2.5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO: 1 no. bladder each	Date-Receipt of Sample	17/09/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	24/09/2022
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934A
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Meteorological Data / Environmental Conditions

Average Wind velocity 11 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/80%	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)	9.4	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	15.9	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	59	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	26	60	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page no.15: 2013
Lead (Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/DIO a Compendium Method 10-31 & 3.2
Carbon Monoxide (CO)	1.0	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page no.35: 2013

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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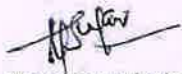


NOISE LEVEL MEASUREMENT REPORT

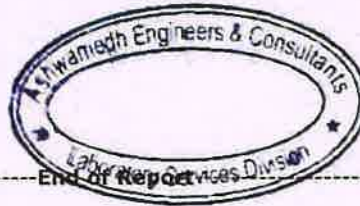
Sample ID: N/06/22/3446	Report No. N/06/22/3446N	Report Date	27/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	CA Terminal Gate No.8 DG 125 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	21/06/2022
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	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
CA Terminal Gate No.8 DG 125 kVA							
1	East	11:00	A1	79	B1	54	25
2	West	11:05	A2	82	B2	56	26
3	South	11:10	A3	80	B3	55	25
4	North	11:20	A4	83	B4	58	25
			Average	81	Average	55.75	25.25
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							



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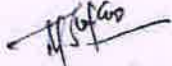
NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3453	Report No. N/06/22/3453N	Report Date	05/04/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	MLCP Building DG 380 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	30/03/2022
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

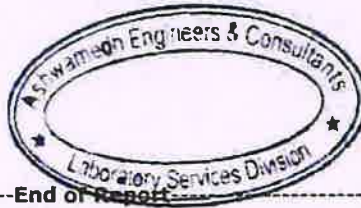
Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
MLCP Building DG 380 kVA							
1	East	1100	A1	76	B1	50	26
2	West	1105	A2	78	B2	54	24
3	South	1110	A3	75	B3	50	25
4	North	1120	A4	77	B4	51	26
			Average	76.5	Average	51.25	25.25

Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.



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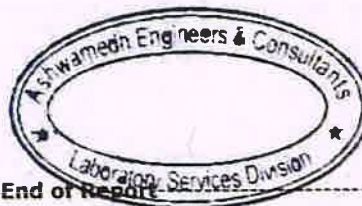


NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3452	Report No. N/06/22/3452N	Report Date	30/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1A Power House DG III 625 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	22/06/2022
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	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1A Power House DG III 625 kVA							
1	East	11:00	A1	78	B1	53	25
2	West	11:05	A2	82	B2	56	26
3	South	11:10	A3	81	B3	56	25
4	North	11:20	A4	79	B4	54	25
			Average	80	Average	54.75	25.25
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							


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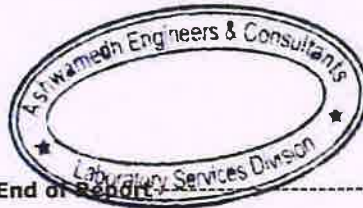
NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3448	Report No. N/06/22/3448N	Report Date	27/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1C Power House DG II 625 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	21/06/2022
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	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG II 625 kVA							
1	East	1100	A1	82	B1	56	26
2	West	1105	A2	85	B2	60	25
3	South	1110	A3	83	B3	59	24
4	North	1120	A4	84	B4	58	26
			Average	83.5	Average	58.25	25.25
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3447	Report No. N/06/22/3447	Report Date	27/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1C Power House DG I 1010 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	21/06/2022
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	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG I 1010 kVA							
1	East	11:00	A1	84	B1	58	26
2	West	11:05	A2	85	B2	60	25
3	South	11:10	A3	82	B3	55	27
4	North	11:20	A4	84	B4	59	25
			Average	83.75	Average	58	25.75

Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.


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NOISE LEVEL MEASUREMENT REPORT

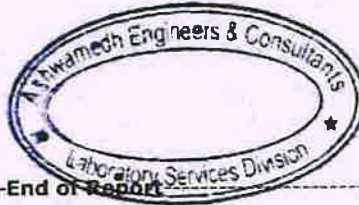
Sample ID: N/06/22/3449	Report No. N/06/22/3449N	Report Date	30/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1C Power House DG III 1010 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	21/06/2022
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	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG III 1010 kVA							
1	East	11:00	A1	86	B1	61	25
2	West	11:05	A2	88	B2	61	27
3	South	11:10	A3	87	B3	61	26
4	North	11:20	A4	86	B4	61	25
			Average	86.75	Average	61	25.75
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							



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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3450	Report No. N/06/22/3450N	Report Date	30/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1C Power House DG IV 2500 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	22/06/2022
Calibration Certificate	CC/ECL/1534/20-21	Instrument Model	SLM 1699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/JAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018	Instrument ID	VI-EQP-61

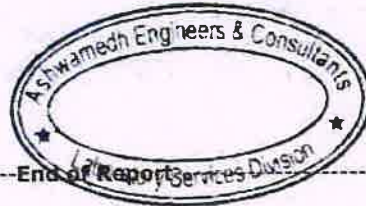
Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG IV 2500 kVA							
1	East	11:00	A1	88	B1	64	24
2	West	11:05	A2	89	B2	63	26
3	South	11:10	A3	86	B3	61	25
4	North	11:20	A4	87	B4	62	25
			Average	87.5	Average	62.5	25

Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.

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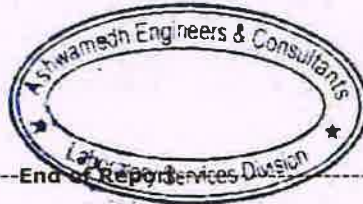


NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/06/22/3451	Report No. N/06/22/3451N	Report Date	30/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Monitoring Done By	Laboratory	Sample Description /Type	T-1A Power House DG I 625 kVA
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	22/06/2022
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1A Power House DG I 625 kVA							
1	East	11:00	A1	80	B1	56	24
2	West	11:05	A2	78	B2	53	25
3	South	11:10	A3	81	B3	54	27
4	North	11:20	A4	80	B4	54	26
			Average	79.75	Average	54.25	25.5
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							


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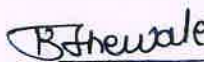


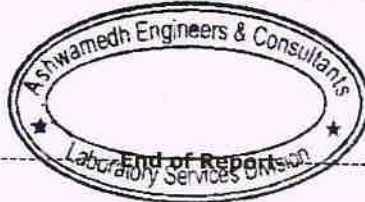
STACK EMISSION MONITORING REPORT

Sample ID: SA/06/22/0646	Report No.: SA/06/22/0646	Report Date	28/06/2022
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	21/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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	CA Terminal Gate No. 8
~Stack attached to	D G Set 125 KVA
~Material of construction	MS
~Stack height above ground level	12 m
~Stack diameter	0.10 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	122	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	10.72	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	218	-	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)	8.42	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.044	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	13.4	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985


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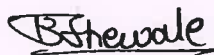
STACK EMISSION MONITORING REPORT

Sample ID: SA/06/22/0647	Report No.: SA/06/22/0647	Report Date	28/06/2022
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	21/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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			

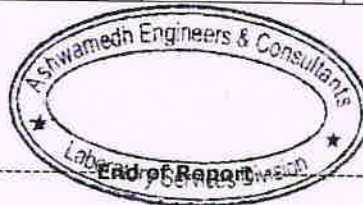
Stack Details

~Stack Identity	D G - 2 T1C Powerhouse
~Stack attached to	D G 625 KVA
~Material of construction	MS
~Stack height above ground level	22.7 m
~Stack diameter	0.20 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	25 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	103	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	9.20	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	805	-	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)	5.71	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.110	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	11.9	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985



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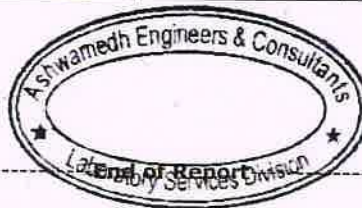
Sample ID: SA/06/22/0648	Report No.: SA/06/22/0648	Report Date	28/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
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	21/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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	D G - 3 T1C Powerhouse
~Stack attached to	D G 1010 KVA
~Material of construction	MS
~Stack height above ground level	24.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	55 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	12.47	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	2229	-	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)	5.61	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)	12.3	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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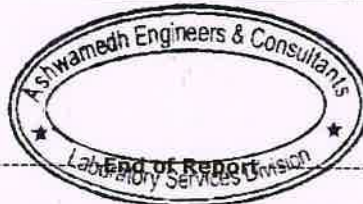
Sample ID: SA/06/22/0649	Report No.: SA/06/22/0649	Report Date	28/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
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	22/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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	D G - 1 T1C Powerhouse
~Stack attached to	D G 1010 KVA
~Material of construction	MS
~Stack height above ground level	24.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	55 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	126	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	12.53	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	2326	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	13	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	8.57	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.478	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	11.4	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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Sample ID: SA/06/22/0650	Report No.: SA/06/22/0650	Report Date	28/06/2022
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	22/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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. 000046050/5th CAC-1811001379 Dated 29.11.2018			

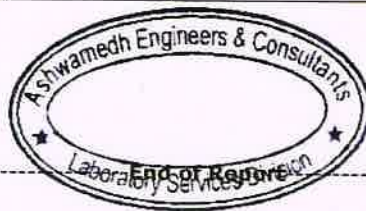
Stack Details

~Stack Identity	D G - 4 T1C Powerhouse
~Stack attached to	D G 2500 KVA
~Material of construction	MS
~Stack height above ground level	22.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	75 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	153	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	14.32	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	2434	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	12	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	8.57	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.500	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	11.8	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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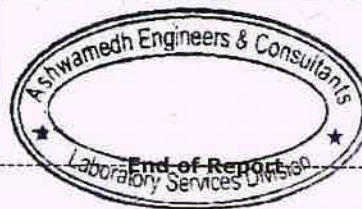
Sample ID: SA/06/22/0651	Report No.: SA/06/22/0651	Report Date	28/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
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	22/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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	D G - 1 T1A Powerhouse
~Stack attached to	D G 625 KVA
~Material of construction	MS
~Stack height above ground level	22.7 m
~Stack diameter	0.15 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	108	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.28	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	402	-	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)	7.14	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.068	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	11.8	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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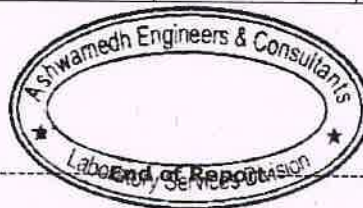
Sample ID: SA/06/22/0652	Report No.: SA/06/22/0652	Report Date	28/06/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
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	22/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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	D G - 2 T1A Powerhouse
~Stack attached to	D G 625 KVA
~Material of construction	MS
~Stack height above ground level	22.7 m
~Stack diameter	0.15 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	102	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.37	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	413	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	17	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)	0.071	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	13	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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Sample ID: SA/06/22/0653	Report No.: SA/06/22/0653	Report Date	28/06/2022
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	22/06/2022
		Date - Receipt of Sample	23/06/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	23/06/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date -Completion of Analysis	27/06/2022
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			

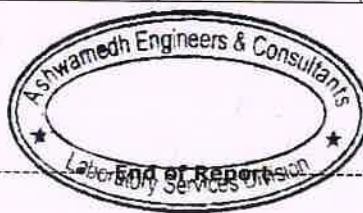
Stack Details

~Stack Identity	D G MLCP Building
~Stack attached to	D G 380 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	20 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	112	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	7.52	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	161	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	15	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	8.57	Not Specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.033	Not Specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	12	Not Specified	mg/Nm ³	IS 11255 (Part 7):1985

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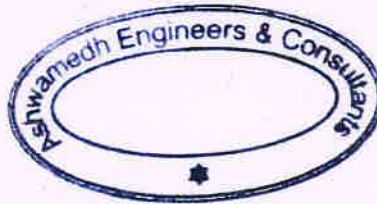


TEST REPORT

Sample ID: E/04/22/0281	Report No.: E/04/22/0281	Report Date	27/04/2022
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	23/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	23/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	26/04/2022
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	6.27	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	87	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	178	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	600	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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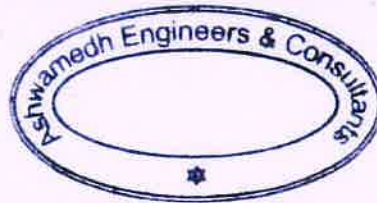


TEST REPORT

Sample ID: E/04/22/0282	Report No.: E/04/22/0282	Report Date	27/04/2022
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	23/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	23/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	26/04/2022
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	6.28	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	12	50	mg/L	IS 3025 (Part 17): 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/04/22/0282 bears two Test Reports - E/04/22/0282 and E/04/22/0282N					


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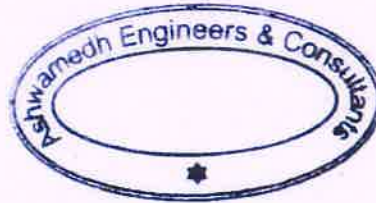
TEST REPORT

Sample ID: E/04/22/0282	Report No.: E/04/22/0282N	Report Date	27/04/2022
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	23/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	23/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	26/04/2022
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-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/04/22/0282 bears two Test Reports - E/04/22/0282 and E/04/22/0282N					



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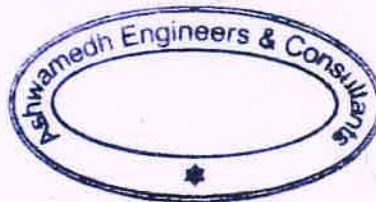
TEST REPORT

Sample ID: E/04/22/0360	Sample ID: E/04/22/0360	Report Date	04/05/2022
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	28/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/05/2022
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	6.55	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	72	mg/L	IS 3025 (Part I): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	381	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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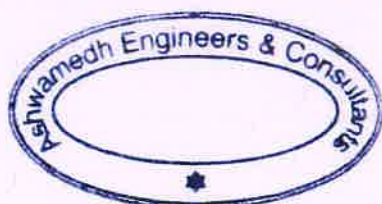


TEST REPORT

Sample ID: E/04/22/0361	Sample ID: E/04/22/0361	Report Date	04/05/2022
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	28/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/05/2022
Consent Number & Date : Format 1.0/BO/CAC-Ce11/UAN No. 000046050/5 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	7.80	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	6	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, 5-18
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/04/22/0361 bears two Test Reports - E/04/22/0361 and E/03/22/0361N					

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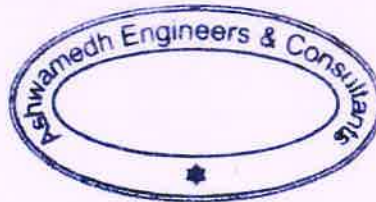
TEST REPORT

Sample ID: E/04/22/0361	Sample ID: E/04/22/0361	Report Date	04/05/2022
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	28/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/05/2022
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	7.80	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	6	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/04/22/0361 bears two Test Reports - E/04/22/0361 and E/03/22/0361N					



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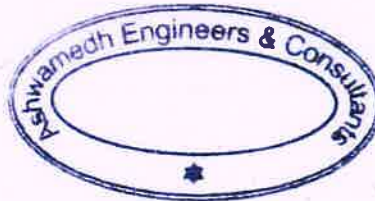
TEST REPORT

Sample ID: E/04/22/0361	Sample ID: E/04/22/0361N	Report Date	04/05/2022
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	28/04/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	28/04/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/05/2022
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-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/04/22/0361 bears two Test Reports - E/04/22/0361 and E/03/22/0361N					



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Technical Manager (Chemical)
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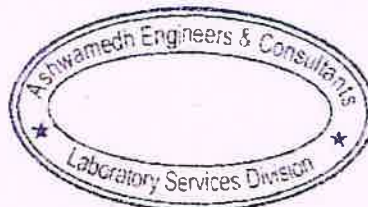


TEST REPORT

Sample ID: E/08/22/0339	Report No.: E/08/22/0339	Report Date	03/09/2022
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	31/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/08/2022
Order Reference:	S.O. No. 5700313365 dated 12.08.2022	Date - Completion of Analysis	03/09/2022
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	pH	6.30	-	IS 3025 (Part 11):1983
2.	Total Suspended Solids	78	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	138	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	480	mg/L	APHA, 23 rd Ed., 5220-B, 5-18
5.	Ammonical Nitrogen (as NH ₃ -N)	30	mg/L	APHA, 23 rd Ed., 4500 NH ₃ , B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
6.	Faecal Coliforms	70	MPN Index /100 ml	APHA, 23 rd Ed., 9221-E, 9-77: 2017
Note: Sample ID E/08/22/0339 bears two Test Reports - E/08/22/0339 and E/08/22/0339N				


Divya Sharma
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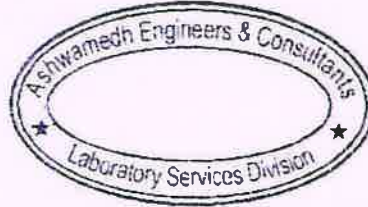
TEST REPORT

Sample ID: E/08/22/0339	Report No.: E/08/22/0339N	Report Date	03/09/2022
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	31/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/08/2022
Order Reference:	S.O. No. 5700313365 dated 12.08.2022	Date - Completion of Analysis	03/09/2022
Consent Number & Date: Format I.O/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	33	mg/L	APHA, 23rd Ed., 4500-NH3, F, 4-119:2017
Note: Sample ID E/08/22/0339 bears two Test Reports - E/08/22/0339 and E/08/22/0339N				



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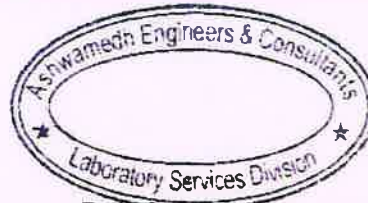



TEST REPORT

Sample ID: E/08/22/0340	Report No.: E/08/22/0340	Report Date	03/09/2022
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	31/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/08/2022
Order Reference:	S.O. No. 5700313365 dated 12.08.2022	Date - Completion of Analysis	03/09/2022
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	pH	7.29	5.5 - 9.0	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	10	20	mg/L	IS 3025 (Part I7): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	8	10	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	40	50	mg/L	APHA, 23 rd Ed., 5220-B, 5-18
5.	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	5	mg/L	APHA, 23 rd Ed., 4500 NH ₃ , B & C, 4 -114, 4-116
Biological Testing; Group: Pollution & Environment					
6.	Faecal Coliforms	11	less than 100	MPN Index /100 ml	APHA, 23 rd Ed., 9221-E, 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/0340 bears two Test Reports - E/08/22/0340 and E/08/22/0340N					


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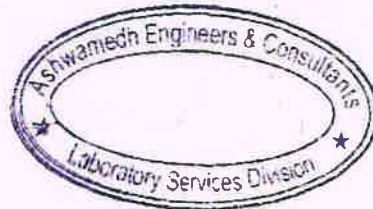
TEST REPORT

Sample ID: E/08/22/0340	Report No.: E/08/22/0340N	Report Date	03/09/2022
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	31/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	31/08/2022
Order Reference:	S.O. No. 5700313365 dated 12.08.2022	Date - Completion of Analysis	03/09/2022
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	2.24	10	mg/L	APHA. 23rd Ed., 4500-NH3, F, 4-119:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/0340 bears two Test Reports - E/08/22/0340 and E/08/22/0340N					

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TEST REPORT

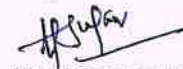
Sample ID: E/08/22/03	Report No.: E/08/22/03	Report Date	12/08/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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	7.04	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	98	mg/L	IS 3025 (Part 17): 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
7.	Ammonical Nitrogen (as NH ₃ -N)	7.2	mg/L	APHA, 23 rd Ed. 4500 NH ₃ , B 6 C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
8.	Faecal Coliforms	33	MPN Index /100 ml	APHA, 23 rd Ed. 9221-E, 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/03 bears two Test Reports - E/08/22/03 and E/08/22/03N				


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TEST REPORT

Sample ID: E/08/22/03	Report No.: E/08/22/03N	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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.	Total Nitrogen (as N)	217	mg/L	APHA, 23 rd Ed., 4500-NH3, F, 4-109:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/03 bears two Test Reports - E/08/22/03 and E/08/22/03N				

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TEST REPORT

Sample ID: E/08/22/04	Report No.: E/08/22/04	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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	6.80	5.5 - 9.0	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	8	20	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	10	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	10	50	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
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	Not specified	mg/L	APHA 23 rd Ed., 4500-Cl-G, 4-72
7.	Ammonical Nitrogen (as NH ₃ -N)	0.8	5	mg/L	APHA 23 rd Ed., 4500 NH ₃ , B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment					
8.	Faecal Coliforms	<1.8	less than 100	MPN Index /100 ml	APHA 23 rd Ed., 9221-E, 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/04 bears two Test Reports - E/08/22/04 and E/08/22/04N					


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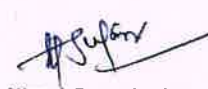
TEST REPORT

Sample ID: E/08/22/05	Report No.: E/08/22/05	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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	6.53	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	82	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	200	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	580	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
7.	Ammonical Nitrogen (as NH ₃ -N)	1.3	mg/L	APHA, 23 rd Ed. 4500 NH ₃ , B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
8.	Faecal Coliforms	27	MPN Index /100 ml	APHA, 23 rd Ed. 9221-E, 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/05 bears two Test Reports - E/08/22/05 and E/08/22/05N				


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TEST REPORT

Sample ID: E/08/22/05	Report No.: E/08/22/05N	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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.	Total Nitrogen (as N)	66.4	mg/L	APHA, 23rd Ed., 4500-NH3, F, 4-119:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/05 bears two Test Reports - E/08/22/05 and E/08/22/05N				



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TEST REPORT

Sample ID: E/09/22/3005	Report No.: E/09/22/3005N	Report Date	21.09.2022
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	09/09/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	09/09/2022
Order Reference:	S.O. No. 5700313365 dated 12.08.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date: Format 1.0/CAC/UAN No. 0000111260/CR/2205000810 Dated 13.05.2022			

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	5.27	10	mg/L	APHA, 23rd Ed., 4500-NH3, F, 4-119:2017

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TEST REPORT

Sample ID: E/08/22/06	Report No.: E/08/22/06	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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	5.80	5.5 - 9.0	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	9	20	mg/L	IS 3025 (Part I):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	10	mg/L	IS 3025 (Part 44):1993
4.	Chemical Oxygen Demand	10	50	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
6.	Free Residual Chlorine (as Cl ₂)	BLQ (LOQ:0.05)	Not specified	mg/L	APHA, 23 rd Ed., 4500-Cl-G, 4-72
7.	Ammonical Nitrogen (as NH ₃ -N)	0.2	5	mg/L	APHA, 23 rd Ed., 4500 NH ₃ , B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment					
8.	Faecal Coliforms	<1.8	less than 100	MPN Index /100 ml	APHA, 23 rd Ed., 9221-E, 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/06 bears two Test Reports - E/08/22/06 and E/08/22/06N					

D Sharma
Divya Sharma

Technical Manager (Biological)
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TEST REPORT

Sample ID: E/08/22/06	Report No.: E/08/22/06N	Report Date	12/08/2022
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	01/08/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	01/08/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	11/08/2022
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.	Total Nitrogen (as N)	4.88	10	mg/L	APHA, 23rd Ed., 4500-NH3, F, 4-119:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/06 bears two Test Reports - E/08/22/06 and E/08/22/06N					


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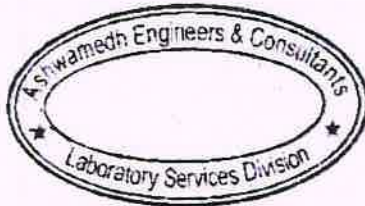
TEST REPORT

Sample ID: E/06/22/0348	Report No.: E/06/22/0348	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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	8.05	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	120	mg/L	IS 3025 (Part 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	173	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	480	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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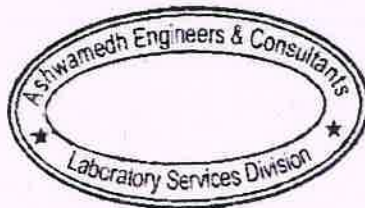


TEST REPORT

Sample ID: E/06/22/0349	Report No.: E/06/22/0349	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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	3.38	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	8	50	mg/L	IS 3025 (Part I):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	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/06/22/0349 bears two Test Reports - E/06/22/0349 and E/06/22/0349N					

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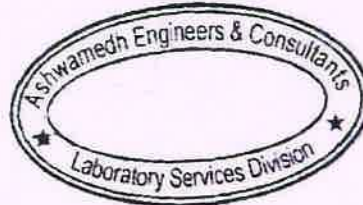
TEST REPORT

Sample ID: E/06/22/0349	Report No.: E/06/22/0349N	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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/06/22/0349 bears two Test Reports - E/06/22/0349 and E/06/22/0349N					



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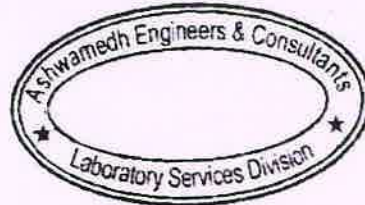


TEST REPORT

Sample ID: E/06/22/0350	Sample ID: E/06/22/0350	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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	8.11	-	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)	223	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	600	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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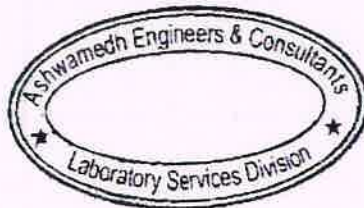


TEST REPORT

Sample ID: E/06/22/0351	Sample ID: E/06/22/0351	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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 17): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	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/06/22/0351 bears two Test Reports - E/06/22/0351 and E/06/22/0351N					

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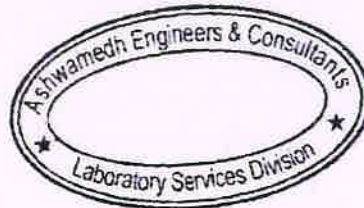
TEST REPORT

Sample ID: E/06/22/0351	Sample ID: E/06/22/0351N	Report Date	29/06/2022
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	25/06/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	25/06/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	28/06/2022
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-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/06/22/0351 bears two Test Reports - E/06/22/0351 and E/06/22/0351N					



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TEST REPORT

Sample ID	E/05/22/0345	Report No.	E/05/22/0345	Report Date	01/06/2022
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	26/05/2022		
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022		
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022		
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	6.32	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	130	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	471	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-64-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				



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TEST REPORT

Sample ID: E/05/22/0346	Report No: E/05/22/0346	Report Date	01/06/2022
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	26/05/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022
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	7.58	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part II): 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. 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/05/22/0346 bears two Test Reports - E/05/22/0346 and E/05/22/0346N					



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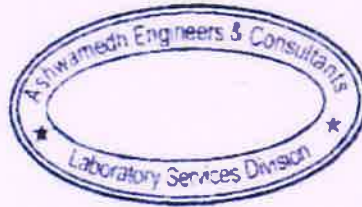
TEST REPORT

Sample ID: E/05/22/0346	Report No: E/05/22/0346N	Report Date	01/06/2022
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	26/05/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022
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-6.4-72
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/05/22/0346 bears two Test Reports - E/05/22/0346 and E/05/22/0346N					

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TEST REPORT

Sample ID: E/05/22/0347	Sample ID: E/05/22/0347	Report Date	01/06/2022
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	26/05/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022
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	6.48	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	138	mg/L	IS 3025 (Part II): 1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	631	mg/L	IS 3025 (Part 44): 1993
4.	Chemical Oxygen Demand	1600	mg/L	APHA 23 rd Ed. 5220-B-5-08
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/05/22/0348	Sample ID: E/05/22/0348	Report Date	01/06/2022
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	26/05/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022
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	6.88	Not specified	-	IS 3025 (Part II):1983
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part II):1984
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part II):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/05/22/0348 bears two Test Reports - E/05/22/0348 and E/05/22/0348N					


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TEST REPORT

Sample ID: E/05/22/0348	Sample ID: E/04/22/0348N	Report Date	01/06/2022
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	26/05/2022
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/05/2022
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	31/05/2022
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/05/22/0348 bears two Test Reports - E/05/22/0348 and E/05/22/0348N					


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TEST REPORT

Sample ID: E/09/22/5120	Report No: E/09/22/5120	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format I.O./CAC/UAN NO 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	7.4	5.5-9.0	-	IS 3025 (Part II) 1983
2.	Total Suspended Solids	12	20	mg/L	IS 3025 (Part I) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	6	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	20	50	mg/L	APHA 23rd Ed 5220-B-18-2017
5.	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	5	mg/L	APHA 23rd Ed 4500-NH ₃ F 4-119-2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	22	Less than 100	MPN Index /100ml	APHA 23rd Ed. 9221 E 9-77: 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/09/22/5120 bears two Test Reports - E/09/22/5120 and E/09/22/5120N					


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Section In-charge (Biological)
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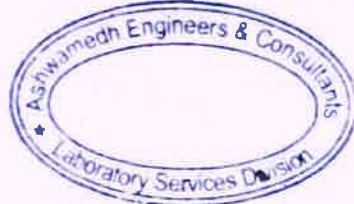
TEST REPORT

Sample ID E/09/22/5120	Report No E/09/22/5120N	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format I/O/CAC/UAN NO 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	4.1	10	mg/L	APHA 23rd Ed. 4500 NH3 B & C, 4-114 4-116:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/09/22/5120 bears two Test Reports - E/09/22/5120 and E/09/22/5120N					



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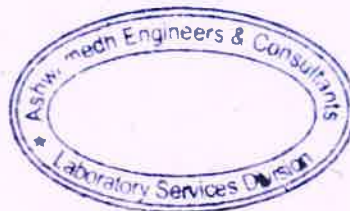


TEST REPORT

Sample ID	E/09/22/5121	Report No.	E/09/22/5121	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022		
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022		
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022		
Consent Number & Date Format I O/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022					

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	6.95		IS 3025 (Part 11) 1983
2.	Total Suspended Solids	86	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	200	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	600	mg/L	APHA 23 rd Ed. 5220- B.5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	23.5	mg/L	APHA 23 rd Ed 4500 NH3 B & C 4 114 4-116-2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 23 rd Ed. 9221-E 9-77- 2017
Note: Sample ID E/09/22/5121 bears two Test Reports - E/09/22/5121 and E/09/22/5121N				


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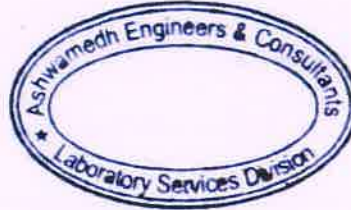


TEST REPORT

Sample ID: E/09/22/5121	Report No. E/09/22/5121N	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format I O/CAC/UAN NO 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	28.6	mg/L	APHA 23rd Ed. 4500-NH3.B & C.4-114.4-116:2017
Note: Sample ID E/09/22/5121 bears two Test Reports - E/09/22/5121 and E/09/22/5121N				

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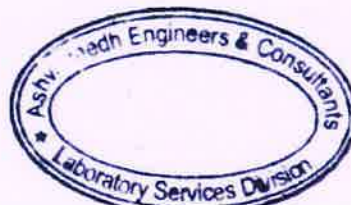


TEST REPORT

Sample ID: E/09/22/5122	Report No.: E/09/22/5122	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd, Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format I.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	7.8	5.5-9.0	-	IS 3025 (Part II) 1983
2.	Total Suspended Solids	15	20	mg/L	IS 3025 (Part I) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	7	10	mg/L	IS 3025 (Part 44) 1983
4.	Chemical Oxygen Demand	20	50	mg/L	APHA 23rd Ed. 5220-B 5-18-2017
5.	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	5	mg/L	APHA 23rd Ed 4500-NH3 F. 4-119-2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	32	Less than 100	MPN Index /100ml	APHA 23rd Ed 9221-E. 9-77-2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/09/22/5122 bears two Test Reports - E/09/22/5122 and E/09/22/5122N					

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TEST REPORT

Sample ID: E/09/22/5122	Report No: E/09/22/5122N	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	3.84	10	mg/L	APHA 23rd Ed. 4500-NH3.B 6 C.4-114 4-18:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/09/22/5122 bears two Test Reports - E/09/22/5122 and E/09/22/5122N					

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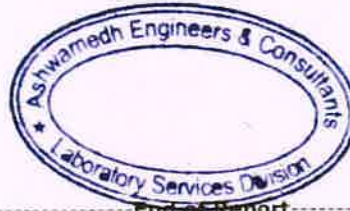
TEST REPORT

Sample ID: E/09/22/5119	Report No: E/09/22/5119	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	6.82	-	IS 3025 (Part II) 1983
2.	Total Suspended Solids	99	mg/L	IS 3025 (Part II) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	225	mg/L	IS 3025 (Part II) 1993
4.	Chemical Oxygen Demand	620	mg/L	APHA 23rd Ed. 5220- B-18-2017
5.	Ammonical Nitrogen (as NH ₃ -N)	22.4	mg/L	APHA 23rd Ed. 4500 NH ₃ -N & C. 4-114 4-116: 2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 23 rd Ed 9221 E 9-77:2017
Note: Sample ID E/09/22/5119 bears two Test Reports - E/09/22/5119 and E/09/22/5119N				


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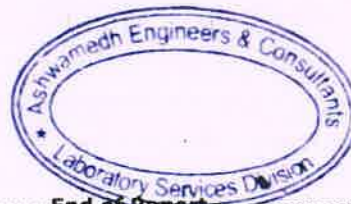
TEST REPORT

Sample ID	E/09/22/5119	Report No.	E/09/22/5119N	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022		
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022		
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022		
Consent Number & Date Format I.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022					

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	32.2	mg/L	APHA, 23rd Ed. 4500 NH3.B B C. 4-114 4-116:2017
Note: Sample ID E/09/22/5119 bears two Test Reports - E/09/22/5119 and E/09/22/5119N				

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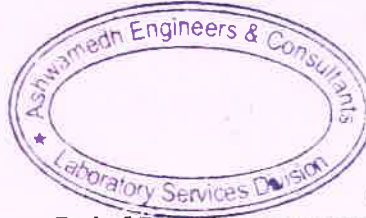
TEST REPORT

Sample ID: E/09/22/5120	Report No.: E/09/22/5120N	Report Date	21/09/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 st 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	17/09/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	17/09/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	20/09/2022
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	4.1	10	mg/L	APHA, 23rd Ed., 4500 NH3, B & C, 4-114 4-116:2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/09/22/5120 bears two Test Reports - E/09/22/5120 and E/09/22/5120N					



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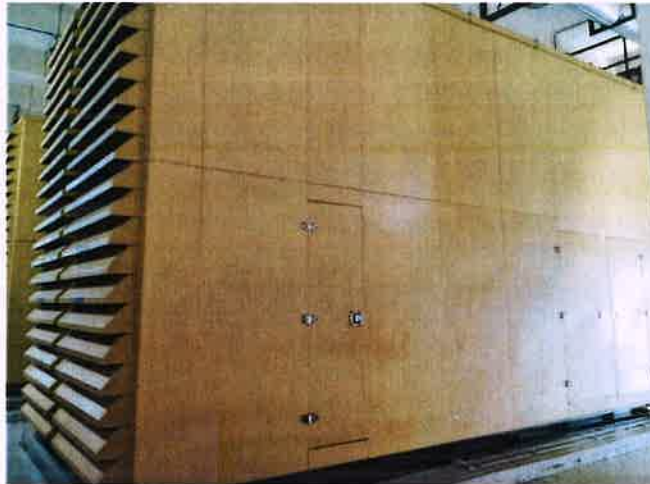
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Annexure - 5 DG Enclosures and stack

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





Annexure - 6 Contingency plan for spills

Mumbai International Airport Ltd.

AIRSIDE OPERATIONS

AIRSIDE SAFETY

STANDARD OPERATING PROCEDURE

FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

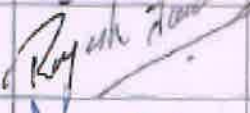
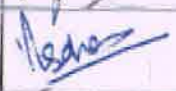

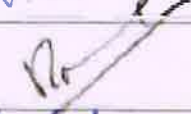
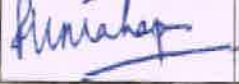
Activity	Name	Signature	Date
Prepared By:	Rajesh Jadhav DGM- Airside Safety		
Recommended by:	Vinayak Sohani Documentation Lead.		
	Jayant Dasgupta AVP - Airside Management		
	Prasad Nair MR-IMS		13/11/21
Approved by	Prabhat Mahapatra EVP - Operations		13/11/21

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

1.0 PURPOSE

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

2.0 SCOPE

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

The scope of this procedure applies to the following agencies.

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

3.0 OBJECTIVE

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

4.0 RESPONSIBILITY

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

5.0 DEFINITIONS & ABBREVIATIONS

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

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

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

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

6.0 PROCEDURE

6.1 Actions by person first noticing the spill

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

6.2 Actions by Aircraft Operator

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

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

6.3 Air Traffic Control

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

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

6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

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

6.5 Airport Rescue and Fire Fighting (ARFF)

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

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

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

6.6 Apron Control

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

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

Service charges shall be levied in cases of where

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

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

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

6.7 Airside Ground Maintenance

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

6.8 Ground Handling Agency

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

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

6.9 Fueling Service Providers

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

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

6.10 Action by Airport Security Force

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

Contact List

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

7.0 FORMATS USED

MIAL/AO-ASM/FMT/16/01

Checklist for Fuel/Fluid Spillage

8.0 RECORDS GENERATED

MIAL/AO-ASM/REC/16

Record of Fuel/Fluid Spillage

9.0 REFERENCES

NIL

10.0 REVISION HISTORY

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 - 7 Oil Interceptors

**Annexure - 8 Green Existing Building (GEB) Rating
Certificate by CII**



Confederation of Indian Industry

Indian Green Building Council (IGBC)

Mumbai International Airport Limited (T-2)

(IGBC Registration No: GEB 15 0662)

hereby certifies that

*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 Last EC Submission Letter

Jayesh Kumar Gehlot

From: Jayesh Kumar Gehlot
Sent: Sunday, July 31, 2022 11:14 PM
To: apccfcentral-ngp-mef@gov.in; eccompliance-mh@gov.in; 'ms@mpcb.gov.in'; SRO Mumbai 2; 'archituprit.cpcb@nic.in'
Cc: Manoj Katar; Shalin Shah; Azharuddin Kazi
Subject: Half Yearly Environment Clearance Compliance report for CSMIA -reg
Attachments: EC compliance status Airside FY 21-22_Apr_Sept.zip; EC compliance status Airside FY 21-22_Oct-Mar.zip

Dear Sir/Madam,

Please find enclosed herewith the compliance report of EC conditions for the period April to Sept and Oct to Mar of FY 21-22.

We are in process and will submit six-monthly compliance report through PARIVESH portal according to the notification issued on 14th June 22 by Ministry of Environment, Forest and Climate Change.

Thanking you.

Yours faithfully,

Jayesh Gehlot,
Head – Environment & Sustainability,
Chhatrapati Shivaji Maharaj International Airport
Mumbai International Airport Limited
1st Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India
Mobile: +91 9001894544, Ph.+22-668-50778

www.csmia.adaniairports.com



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

**Annexure - 10 Environmental Statement (Form V)
2021-22**



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000049195

Submitted Date

29-09-2022

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

Jayesh Kumar Gehlot

Designation

Head Environment & Sustainability,

Telephone Number

02266850778

Fax Number

02266850778

Email

jayeshkumar.gehlot@adani.com

Region

SRO-Mumbai II

Industry Category

Red

Industry Type

R23 Airports and Commercial Air Strips

Last Environmental statement submitted online

yes

Consent Number

RED/L.S.I NO: Format 1.0/CAC/UAN NO/0000111260/CR/2205000810/ RED/L.S.I(R1) NO:FORMAT1.0/CAC/UAN NO MPCB-CONSENT-0000114666/CR-2202000364/ RED/L.S.I(R31)NO-FORMAT1.0/CAC/UAN NO-0000082458/CR-200700167

Consent Issue Date

2022-05-13

Consent Valid Upto

2024-05-31

Establishment Year

2006

Date of last environment statement submitted

Sep 29 2021 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

Consent Quantity

Actual Quantity

UOM

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	0.00
Domestic	7100.00	2513.70
All others	0.00	0.00
Total	7100.00	2513.70

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Sewage generation at CSMIA	6615	1255.0	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	0.078	0.042	

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	104.2	

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
pH	7.1	7.1	0	8	Pollutant discharge within standard limit
Suspended Solids	15.7	18.8	0	50	Pollutant discharge within standard limit
BOD 3 days (27oC)	7.7	11.2	0	30	Pollutant discharge within standard limit
COD	26.2	39.2	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)	0.4	0	0	295.2	Pollutant discharge within standard limit
Total Particulate matter (mg/Nm3)	0	17.6	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	11.760	KL/A
5.2 Wastes or residues containing oil	2.42	0	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3.41	48	Nos./Y
23.1 Wastes or residues (not made with vegetable or animal materials)	44.84	82.402	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	117	180	MT/A
Waste Paper	531	188	MT/A
Waste glass bottles	115	120	MT/A
Waste Plastics bottles	117	0	MT/A
Waste wood	113	150	MT/A
Broken tins	108	168	MT/A
Other Misc. scrap	114	147	MT/A
Waste cotton	88	106	MT/A
Wet waste	1840.7	1397	MT/A
Organic / food waste	207.3	517	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
STP sludge	1.52	8.98	MT/A

3) Quantity Recycled or Re-utilized within the unit

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)	0.4	0	0	295.2	Pollutant discharge within standard limit
Total Particulate matter (mg/Nm3)	0	17.6	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	11.760	KL/A
5.2 Wastes or residues containing oil	2.42	0	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3.41	48	Nos./Y
23.1 Wastes or residues (not made with vegetable or animal materials)	44.84	82.402	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	117	180	MT/A
Waste Paper	531	188	MT/A
Waste glass bottles	115	120	MT/A
Waste Plastics bottles	117	0	MT/A
Waste wood	113	150	MT/A
Broken tins	108	168	MT/A
Other Misc. scrap	114	147	MT/A
Waste cotton	88	106	MT/A
Wet waste	1840.7	1397	MT/A
Organic / food waste	207.3	517	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
STP sludge	1.52	8.98	MT/A

3) Quantity Recycled or Re-utilized within the unit

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	500000	140	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

Head Environment & Sustainability

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000049195

Submitted On:

29-09-2022