

Ref: MIAL/ENV/23/19

31st May 2023

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 2<sup>nd</sup> June 2017 & 3<sup>rd</sup> April 2007.

With reference to above subject please find enclosed compliance status of EC conditions for the period from October 22 to March 2023.

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

Mr. Ashwin Noronha

Chief Operating Officer (COO)

Encl: Half yearly Environmental Compliance report.

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

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

Chhatrapati Shivaji Maharaj International Airport 1st Floor, Terminal 18, Santacruz (E), Mumbai 400 099, Maharashtra, India CIN: U45200MH2006PLC160164

# 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 Oct- 2022 – March- 2023

# **SIX MONTHLY COMPLIANCE REPORT**

(Period of October to March of FY 22 -23)

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

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

Compliance status of the conditions stipulated in EC'2017 letter is as below:

S.N.	Conditions	Compliance Status
(A) Spec	ific Condition	
(i)	As proposed, this environmental clearance is only for up-gradation of Chhatrapati Shivaji International Airport.	Noted.
(ii)	The project proponent shall obtain clearance from DGCA and AAI for safety and project facilities.	Complied. Aerodrome license have been obtained from DGCA. License copy is attached as Annexure - 01.
(iii)	Construction site shall be adequately barricaded before the construction begins.	Complied. All construction sites are barricaded with metallic sheets before initiating construction activities. The same will be followed for remaining activities. Refer Annexure - O2 of Barricading practices
(iv)	Soil and other construction material shall be sprayed with water prior to any loading, unloading or transfer operations so as to maintain the dusty material wet.	Complied. Water sprinkling is carried out on the soil and construction material during high wind and in summer to ensure no dust pollution while loading & unloading. The same will be followed for remaining activities.
(v)	The soil/construction materials carried by the vehicles shall be covered by impervious sheeting to ensure that the dusty material do not leak from the vehicle	Complied. It is being ensured the vehicles / dumpers carrying soil and construction material are covered with tarpaulin to ensure no dust pollution during transportation. The same will be followed for remaining activities. Annexure – 03 for practices followed

S.N.	Conditions	Compliance Status		
(vi)	The excavation working area shall be sprayed with water after operation so as to maintain the entire surface wet.	Noted and being complied. At the time of excavation, measures to reduce dust pollution are being taken. The same will be followed for remaining activities		
(vii)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal / vertical). Topsoil shall be separately stored and used in the development of green belt.	Noted for compliance Safety measures are being taken and soi 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		
(x)	Noise from vehicles and power machinery and equipment onsite shall not exceed the prescribed limit. Equipment should be regularly serviced. Attention shall also be given to muffler maintenance and enclosure of noisy equipment's.	Noted and being complied, vehicles and equipment's are being maintained as per manufacture recommendations.  Noise level monitoring in and around airport premises is conducted regularly and are observed within prescribed limits. Refer Annexure -04 for monitoring reports.		
(xi)	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7am to 6pm	Noted for compliance and will be followed during the construction activities.		
(xii)	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete, bricks, timber, plastic, glass, metals, bitumen etc. shall be reused /recycled or disposed-off as per the Solid Waste Management Rule, 2016 and the Construction and Demolition Waste Rules 2016.	Complied, waste has been segregated, reused, and disposed as per the Solid Waste Management the Construction and Demolition Waste Rules.		
(xiii)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during	Complied DG sets are used for emergency backup purpose only. Enclosures, stack, and low sulfur		

S.N.	Conditions	Compliance Status
	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).	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- O7 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, pretreatment must be done to remove suspended matter, Oil & grease.	Rainwater recharge pits have been constructed at airside and near terminal buildings to capture roof run offs and use for recharging ground water table. Rainwater pits are provided with coarse sand and stone aggregate filtration.
(xix)	Total freshwater requirement from MCGM shall not exceed from 8 MLD	Complied. Average 1.40 MLD water sourced from MCGM during the period of October-22 to March 23.
(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 1525 KLD sewage generated in October-22 to March 23. The treated water is fully recycled in flushing, HVAC and gardening.

S.N.	Conditions	Compliance Status			
(xxi)	Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. Annexure -05 Acoustic enclosures of DG sets.			
(xxii)	During airport operation period, noise shall be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.	Complied. Ambient air quality and noise levels are well within the limits. Parameters are being monitored by NABL approved third party Laboratory and continuous noise monitoring system. Monitoring reports are given in Annexure-04.			
(xxiii)	The solid waste shall be segregated as per the norms of the Municipal Solid waste Management Rules 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site), plastics (from aircraft, terminals & offices), wood, waste oil and solvents (from maintenance and engineering operation), kitchen wastes and vegetable oils (from caterers) shall be carried out.	Complied, waste Management procedure has been implemented. waste segregation and disposal methods are followed as per stipulated regulatory requirements. Waste is collected in bins, segregated, and channelized to MPCB authorized waste handling agency. Waste handler does the segregation and further channelize for recycling and disposal according to rule. The hazardous wastes are collected and stored at designated storage area and disposed-off at MPCB authorized TSDF and recyclers.			
(xxiv)	Traffic congestion near the entry and exit points from the roads adjoining the airport shall be avoided. Parking should be fully internalized, and no public space should be utilized.	Noted and complied, Multi-Level Car Parking buildings (MLCPs) have been constructed for vehicle parking with adequate capacity at both the passenger terminals.			
(xxv)	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and	Noted and complied. Energy efficient lighting are considered during the design as well as at the time of replacement lighting more energy efficient fittings are considered. Terminal-2 is awarded with Platinum Rating Facility in existing building			

S.N.	Conditions	Compliance Status			
	disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	project category by CII. Any used CFL/TFL generated to be disposed as e-waste to authorized recyclers. Annexure-08 Certificate of Green Building Platinum Rating.			
(xxvi)	An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district.	Complied.			
(xxvii)	The concerns of the public hearing panel shall be suitably addressed to, and the recommendations adopted as part of the Environmental Management Plan and in the plan for CSR as applicable.	, various CSR initiatives in the field of health, education, women empowerment, environment, etc. are			
(xxviii)	A water security plan, to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the CSR activity.	Complied, MIAL provided Rainwater harvesting facility for non-potable used and constructed toilet at a Zilla Parishad school catering to majorly underprivileged students in Shahapur District of Maharashtra.			
(B) (	SENERAL 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 & it is valid till dated 14.08.2027 - complied.			
(ii)	No further modification of expansion in the project shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Noted			
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic	Noted and complied. Regular ambient noise monitoring carried out in and around airport area. The noise levels measured are conforming to the			

S.N.	Conditions	Compliance Status
	hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA(day time) and 70dBA(night time)	standards prescribed under EPA Rules, 1989. Annexure -04 for Monitoring reports.
(iv)	A separate Environmental Management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring function.	Complied, an independent Environment department is functioning under the leadership of Chief Operating Officers and assisted by two Managers. A full-fledged laboratory for testing water parameters is operational and also ambient air, ambient noise levels are continuously monitored through permanently installed stations.
(v)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement to conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Noted and complied with, a separate budget for environmental protection measures and initiatives is allocated every year. Opex: Approx. INR 25.32 Cr was spent in FY 2022–23 for STP O&M, waste disposal, greenery maintenance, etc.  Also had capex investment to implement the green initiative to reduce carbon management in FY 2022–23, approximately INR 15.4358 Cr for EV vehicles & EV charger, and other initiatives.
(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 1st December 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,	The copy of clearance letter was submitted to MMRDA & Collector vide letter no MIAL/DIR(UP)/158(B)/2017/173 dated 28 <sup>th</sup> June 2017 and

S.N.	Conditions	Compliance Status		
	were received while processing the proposal. The clearance letter shall also be put on the website of the company the proponent.	MIAL/DIR(UP)/158(B)/2s017/175 dated 28 <sup>th</sup> June 2017 respectively.		
(viii)	A project proponent shall also submit six monthly monitoring reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hardcopies as well as by e-mail) to the Regional Officer of MoEF&CC, the respective Zonal office of CPCB and the SPCB. The regional officer of this Ministry /CPCB/SPCB shall monitor the stipulated conditions.	submitted to Ministry/CPCB/MPCB by letter no. MIAL/ENV/22/11 dated: December 1st, 2022. Refer Annexure - 09 letter of previous compliance report submission.s		
(ix)	The environmental statement for each financial year ending 31st 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.	2021-22 is submitted on MPCB portal on 28 <sup>th</sup> September 2022. It is available also available on the website to https://csmia.adaniairports.com/all-reports.aspx  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 <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.	Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 <sup>th</sup> December 2017.		
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final	Noted		

S.N.	Conditions	Compliance Status
	approval of the project by the concerned authorities and the date of	
	commencing of land development	
	work.	
(xii)	The Ministry may revoke or suspend the	Noted
	clearance, if implementation of any of	
	the above conditions is not	
	satisfactory.	
(xiii)	The ministry reserves the right to	Noted
	stipulate additional conditions, if	
	necessary. The company in time bound	
	manner shall implement these conditions	
(xiv)	This clearance is subject to final order	Noted
(XIV)	of the Hon'ble Supreme Court of India	Noted
	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.	

# Annexure -01 Aerodrome License.



# GOVERNMENT OF INDIA

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

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

At 05-64

# 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

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.

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Date of issue: 01st November 2018

New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

# VALIDITY OF THE LICENSE

# Chhatrapati Shivaji Maharaj International Airport, Mumbai

Plane & Place of Associates). FROM TO SIGNATURE गवनिवेशक 03.05.2018 02.05.2020 Streeter Guneral at Child Avisition feet a seption and longs NT 611 Literator General of Civil Avioden 0 2 MAY 2022 B 3 MAY 2020 Didio महानिदेशक गाया विमानग NOTE Director Gurand of Chil Astolian 8 3 MAY 2022 0.2 MAY 202N

Annexure -02 Barricading practices.

Annexure - 02 Barricading practices at Construction site







Annexure- 03 Construction material truck covered by impervious sheeting.

Annexure -03 - Construction Material Trucks are covered with tarpaulin





# Annexure- 04 Environment conditions monitoring reports.





## NOISE LEVEL MEASURMENT REPORT

Report No. 10/10/22/5363	tr 17/10/2027	
Chhatrapati Shivaji Mahanaj Internati	onal Airport,	
Laboratory	Ambient Noise	
As Per Mail Dated 14.07.2022	Dute of Monitoring	11/10/2022 to 12/10/2022
2021/08/12/05	Instrument Model	Sound level Mete
Format 1.0/CAC/UAN No.0000311260/CR/2205000810 Date:13.05.2022		
	Mumbai International Airport Ltd Chlutrapati Shiwo Maharaj Internati 1st Floor, Terminal 18, Santacruz (E) Mumbai-400099 Maharashtra Laboratory  As Per Mail Dated 14.07.2022  2021/08/12/05  Format 1.0/CAC/UAN No.0000111260/CR/2205000810	Mumbal Enternational Airport Ltd. Chitatrapati Shiwe Maharaj International Airport, 1st Floor, Terminal 16, Santacriur (E), Mumbal-400099 Maharashtra  Laboratory Sample Description Tigle  As Per Mail Dated 14.07.2022 Date of Miniming  2021/06/12/05 Instrument Model  Format 1.0/CAC/UAN No.0000111260/CR/2205000610 Instrument ID

	Location	Day Ti	Day Time (6AM-10PM) dB (A)		Night Time (10PM -GAM) dB (A)			Method
Sr No	Location	Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1:	Runway 27 End	69.5	68.7	70.2	66.3	65.2	67.4	
2	STP Terminal- 1	68.8	67.4	70.1	65.2	64.1	66.1	
3	CCR-2	67.5	66.2	68.7	61.2	59.4	62.9	
4	Apron Control	67.7	66.4	58.9	64.5	63.3	65.6	CPCB Protectal for Antisient Level
5	6 No Gate (Sahar)	69.2	67.6	70.6	67.2	65.1	69.3	Note Mentering, July 2005 ACC/C/SAP/SAM/SI R 36
6	Lima 8	69.6	67.5	71.7	61.2	60.1	62.3	
2	Runway 14 End	69.9	68.3	71.4	63,6	61.9	65.2	
h	Project Office (Satur)	69	67.1	70.9	64.6	63.1	66.0	
9	Cargo 4D	68.4	66.5	70.3	65.8	64.2	67.3	
10	OWC Kurle	68.3	66.4	70.1	65	63.9	66.1	
				Limit				
	As Per th	e Environ	ment (Pr	otection)		86, Sched		
	a contract	Industry		Limits in dB (A) weighted scale				
Serial Number		Transfer A.		Day	(6 a.m. bo	0 p.m.) Night (10 p.m. to 6 a.r		

Nined Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Airport (Busy Airport)



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## Note:

112

The result listed refers only to the tested sample(s) and applicable parameter(s).
 This report is not to be reproduced except in full, without written approval of the laboratory.

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



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ALC: HEEPING





## NOTSE LEVEL MEASURMENT REPORT

Sample ID: N/11/22/5737	Report No.: N/11/22/5737	Report Date	25/11/2022		
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	national Airport,			
Monitoring Done By	Laboratory Sample Description/Type Ambient Noise				
Order Reference	Order No.5700316635 Date-29.10.2022	Date of Monitoring	te of Monitoring 18/11/2022 to 19/11/2022		
Calibration Certificate	2021/08/12/05	Instrument Model Sound le		level Meter	
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/E	AEC/EQ/404	

			Day Time (6AM-10PM) dB (A)			rime (10PI dB (A)	Method	
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	64.55	63.3	65.8	63.4	62.8	64.1	166
2	STP Terminal- 1	64.3	63.2	65.5	63.4	62.7	64.2	
3	CCR-2	65.6	64.8	64.8	64.0	63.8	62.2	1
4	Apron Control	63.7	60.6	66.8	61.3	58.5	64.2	CPCB Protocol for Ambient Level
5	6 No Gate (Sahar)	64.5	60.6	68.4	61.2	58.3	64.2	Hoise Monitoring July AEC/C/SAP/SAM/358 38
6	Lima 8	65.1	61.8	68.4	61.7	59.6	63.8	lasue en A. lasue éate Et D4 201
7	Runway 14 End	64.3	60.2	68.4	61.5	59.2	63.8	
8	Project Office (Sahar)	64.7	60.7	68.7	61.4	58.3	64.5	
9	Cargo 4D	64.7	60.8	68.7	61.9	59.7	64.2	
10	OWC Kurla	64.6	60.8	65.8	61.4	58.2	64.7	
				Limit		100		
	As Per th	e Environ	ment (Pro	tection)	Rules, 19	36, Schedu	de -I	

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Airport (Busy Airport)



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## Note:

112

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





AEC/F/REP/1-G





sales@ashwamedh.net +91-253-239222!

NOTSE LEVEL MEASURMENT DEPORT

	HOTSE FEATURE MENSORM	CIVI KEPUR	(1	
Sample ID: N/12/22/5449	Report No.: N/12/22/5449	Report Date	13/12/2022	
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1st Floor, Terminal 1B, Santacruz (E Mumbai-400099 Maharashtra	ional Airport,		
Monitoring Done By	Laboratory Sample Description/Type		п/Турс	Ambient Noise
Order Reference	Work Order No.5700316635 Date- 29.10.2022 Date of Monitorin		0	08/12/2022 to 09/12/2022
Calibration Certificate	AEC/0722/SM-3	/SM-3 Instrument Model		Sound level Meter
Format 1.0/CAC/UAN No.0000111260/CR/2205000810 Inst Date.13.05.2022		Instrument ID		AEC/EQ/2091

Sr No	Loc	ation	Day Time (6AM-10PM) dB (					Method		
01 110	200	acion	Leq	Lmin	Lmax	Leq	Lmin	Lmax		
1	Runway 27	7 End	65.5	64.3	66.7	62.2	61.5	63.0		
2	STP Termi	nal- 1	66.5	65.2	67.8	61.7	60.9	62.5		
3	CCR-2		64.4	63.7	65.2	61.8	60.9	62.7		
4	Apron Con	trol	67.6	66.7	68.4	63.6	62.5	64.7	CPCB Protocol for Ambient Lev	
5	6 No Gate	(Sahar)	68.6	67.2	69.4	64.8	63.9	65.6	Noise Monitoring, July AEC/C/SAP/SAM/356:36, Is	
6	Lima 8		65.4	64.2	66.7	60.4	59.4	61.4	ro:4, Issue date 01.04.2018	
7	Runway 14	End End	68.8	67.8	69.7	65.2	64.2	66.2		
8	Project Off	ice (Sahar)	67.5	66.7	68.3	63.4	62.7	64.2		
9	Cargo 4D		66.4	65.2	67.6	62.9	62.7	63.1		
10	OWC Kurla		65.3	64.2	66.4	61.7	60.9	62.5		
					Limit					
		As Per t	he Envir	onment (F	rotection	)Rules, 1	986, Sche	edule -I		
					Li	mits in dB	(A) weight	ted scale		
Serial N	lumber		Industry		Di	p.m.)	to 10	Night (	(10 p.m. to 6 a.m.)	
112		Airport	t (Busy Ai	rport)		70			65	









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







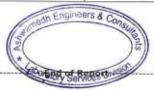


NOISE LEVEL MEASURMENT DEPORT

Sample ID: N/01/23/6222	Report No.: N/01/23/6222 R			30/01/2023	
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	national Airport,			
Monitoring Done By	Laboratory	Sample Description/Type Ambie		bient Noise	
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date of Monitoring		/2023 to /2023	
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound	i level Meter	
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/E	Q/2091	

Sr No	Location	(6AN	Day Time (6AM-10PM) dB (A)		Night Time (10PM -6AM) dB (A)			Method
57.575	25531511	Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	67.8	66.7	68.9	61.3	60.5	62.1	
2	STP Terminal- 1	66.5	65.3	67.8	63.2	62.1	64.4	
3	CCR-2	63.9	62.8	64.9	60.6	59.8	61.5	
4	Apron Control	66.5	65.8	67.2	61.3	60.1	62.5	CPCB Protocal for Ambient Level Mains
5	6 No Gate (Sahar)	69.5	68.1	70.0	63.7	62.8	64.7	Munitaring, July AEC/C/SAP/SAM/356 3B, Issue no.A. Issue date III 04 2018
6	Lima 8	66.5	65.2	67.8	58.5	57.9	59.1	
7	Runway 14 End	65.7	64.8	66.6	62.4	61.4	63.4	
8	Project Office (Sahar)	68.4	67.8	69.0	61.8	60.9	62.7	
9	Cargo 4D	64.6	63.4	65.9	60.5	59.4	61.6	
10	OWC Kurla	66.4	65.1	67.8	57.8	56.8	58.9	
				Limit				
	As Per th	e Environ	ment (Pro	tection)F	Rules, 198	36, Schedu	le -I	
Serial N	umber	Industry			Lim	its in dB (A	) weighted	scale
Serial Number Industry			Day (	Day (6 a.m. to 10 p.m.) Night (10			p.m. to 6 a.m.)	

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Airport (Busy Airport)

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



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AEC/F/REP/I-G Page 1 of 1





NOTCE LEVEL MEACUIDMENT DEPORT

Sample ID: N/02/23/5906	Report No.: N/02/23/5906 Re			21/02/2023	
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/Typ	e Ambie	Ambient Noise	
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date of Monitoring	7 1 2 7 2 7 2 7 2	/2023 to /2023	
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound	level Meter	
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/E	Q/2091	

Sr No	Day Time (6AM-10PM) Night Time (1 dB (A) dB (				Location		Time (10P dB (A)	M -6AM)	Method
			Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 E	nd	69.2	68.4	70.0	63.4	62.3	64.5	
2	STP Termina	- 1	64.7	63.5	65.9	60.8	59.6	61.9	
3	CCR-2		66.4	65.1	67.8	62.6	61.3	63.9	
4	Apron Contro	4	68.4	67.7	69.1	59.6	58.4	60.8	EPCB Protocol for Ambient Level Noise Monitoring, July AEE/E/SAP/SAM/X56 SE.
5	6 No Gate (S	ahar)	67.3	66.5	68.2	60.4	59.2	61.7	
6	Lima 8	Lima 8	65.7	64.9	66.5	61.7	60.5	62.8	Issue no.A. Issue dete DLSA.2018
7	Runway 14 E	nd	66.2	65.3	67.1	58.2	57.7	59.3	
8	Project Office	(Sahar)	64.7	63.6	65.7	62.7	61.8	63.5	
9	Cargo 4D		66.4	65.8	67.1	59.2	58.1	60.3	
10	LO OWC Kurla		69.3	68.7	70.0	61.8	60.6	62.9	
	V.		- No.		Limit	N			
		As Per th	e Environ	ment (Pro	tection)	Rules, 19	86, Schede	ule -I	
Serial Number Industry				Lim	its in dB (A	A) weighted	scale		
Jenai Number Industry				Day (	Day (6 a.m. to 10 p.m.) Night (10			p.m. to 6 a.m.)	

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Airport (Busy Airport)



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AEC/F/REP/1-G Page I of I





## NOISE LEVEL MEASURMENT REPORT

Sample 111: N/03/23/5842	Report No.: 8/03/23/3842	Report No.: 8y03/23/5842 Re			
Name and Address of Cantomer	Humbai International Airport Chistrapati Shvaji Maharaj Inter	Humbai International Airport Ltd. Chiatrapati Shiveji Maharaj International Airport, 1st Roor, Terminal 18, Santarnit (E), Humbai-400099 Maharashtra			
Ministering Dené By	Laboratory	Sample Description Typ	e Ambi	Ambient Noise	
Challer Hallemonce	Work Order No 5700319635 Date: 29.10.2022	Date of Missionery		21/03/2023 to 22/03/2021	
California Continue	AEC/0722/SM-3	Intercent Model	Sound level M		
Consum Number & Date	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date 13.05.2022	Instrument ID	AEC/EQ/2091		

Sr No	Location	Day Time (6AM-10PH) Night Time (10PM -6AM)				Hethod			
Bi NO	Locacion	Leq	Lmin	Lmax	Leq	Lmin	timax		
1	Bunway 27 End	68.5	67.8.	69.7	62.6	61.5	63.7		
2	STP Terminal-1	66.5	65.8	67.2	59.7	58.6	90.9		
3	CCR-2	69.3	68.7	70.0	63.8	62.9	164.7		
4	Apron Control	67.2	66.3	68.1	61.7	60,5	62.9	OPDS Pretocal Archant Lovel	
5	6 No Gate (Sahar)	66.5	65.4	67.7	61.5	60.7	62.4	Rose Noticing At ACID/SA/SA/SS S Tree or A linear little SCA/SSS	
6	1.0	63.2	62.5	64.7	57.5	56.2	58.9		
7	Runway 14 find	67.6	66.4	68.9	62.6	61.5	63.7		
	Project Office (Sahar)	60.5	59.7	63.3	55.2	54.8	56.2		
9	Cargo 4D	68.5	67.4	69.7	63.5	62.6	64.2		
10	OWC Korle	65.3	64.1	66.6	59.5	58.7	50.4		
				Limit					
	As Per	the Environ	ment (Pr	otection)	Rules, 19	\$6, Sched	ule -I		
The state of the s			Lin	nes in de (/	t) weighted	scale			
Senat N	lumer.	Industry		Day	Day (6 a.m. to 10 p.m.) Night (			p.m. to 6 a.m.)	
512	Arrp	Amport (Busy Airport)		Airport (Busy Airport) P0			65		

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









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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/22/5359	Report No.: AA/10/22/5359	Report Date	19/10/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	11/10/2022 to 12/10/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	13/10/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	18/10/2022
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3936/

	Meteoro	gical Data /	ta / Environ	menta	I Conditions	6	
Parameter         Results         NAAQS # 2009         Unit         Method           Chemical Testing; Group: Atmospheric Pollution           Sulphur Dioxide (SO <sub>2</sub> )         7.3         80         μg/m³         \$582 (Part 2): 2001           Nitrogen Dioxide (NO <sub>2</sub> )         15.3         80         μg/m³         \$582 (Part 5): 2006           Particulate Matter (size less than 10 μm) or PM <sub>10</sub> 58         100         μg/m³         \$582 (Part 23): 2005           Particulate Matter (size         27         60         μg/m³         CPDS Guidelines Values (Sc/2002-0) Race	The state of the s	The second secon				Duration of Survey 24 h	
Sulphur Dioxide (SO <sub>2</sub> )   7.3   80   μg/m <sup>3</sup>   S 582 (Part 2: 200	Parameter		NAAQS #				
Nitrogen Dioxide (NO₂)         15.3         80         μg/m³         IS 582 (Part 5): 2006           Particulate Matter (size less than 10 μm) or PMτο         58         100         μg/m³         IS 582 (Part 23): 2006           Particulate Matter (size         27         60         μg/m³         PDR Guidelines Values 136/2004/S Page	al Testing; Group: Atm	heric Pollution	ion				
Particulate Matter (size less than 10 μm) or PM <sub>10</sub> 58         100         μg/m³         IS 5882 (Part 23): 2005           Particulate Matter (size         27         60         μg/m³         CPDS Guidelines Values 126/2003/IS Page	Dioxide (SO <sub>2</sub> )	7.3	80	µg/m³	IS SI82 (Part 2): 2001		
less than 10 µm) or PM <sub>10</sub> Particulate Matter (size 27 60 µg/m³ DPS Guitelines Valume 155/7002/0 Page	n Dioxide (NO <sub>2</sub> )	15.3	80	µg/m³	IS 5/82 (Part 6): 2006		
		58	100	μg/m³	IS 5/82 (Part 23): 2006		
		27	60	μg/m³	CPCB Guidelines, Volume 1.35	5/2012-13. Page on 15: 2013	
Lead (Pb) BLQ 1 μg/m <sup>3</sup> ΕΡΑ/S/Σ/R-95/BD a Compardium Method I	b)		1	μg/m³	EPA/675/R-96/DID a Compendium Method ID-31 6 3.2		
Carbon Monoxide (CO) 1.0 4 mg/m³ DPD8 faideires, Yolune II. 37/2017-IQ. Page	Monoxide (CO)	1.0	- 4	mg/m³	CPC8 Guidelines, Volume II, 37/2012-13, Page no./6:2013		
Ammonia (NH <sub>3</sub> )  BLQ (LOQ:20)  400  µg/m <sup>3</sup> DPC8 Guidelines, Yolume 128/7317-13, Page	ia (NH <sub>3</sub> )		400	µg/m³	DPD8 Guidelines, Volume 1,36/2012-13, 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, PM<sub>28</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AEC/F/REP/1-B





## AMBIENT ATR CHALITY MONITORING REPORT

Sample ID: AA/10/22/5360	Report No.: AA/10/22/5360	Report Date	19/10/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	11/10/2022 to 12/10/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	13/10/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	18/10/2022
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

Meter	orological D	ata / E	Environ	menta	I Conditions	
Average Wind velocity 10 km/h	Wind Direction SW	Relativ	e Humidity in.):75/69%		Temperature x./Min.) 31/28°C	Duration of Survey 24 h
Parameter	Result	5	NAAQS# 2009	Unit	Method	
Chemical Testing; Group:	Atmospheric Pol	ution				
Sulphur Dioxide (SO <sub>2</sub> )	6.3		80	µg/m³	IS 5882 (Part 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	14.4		80	μg/m³	IS 5I82 (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	61		100	μg/m³	IS 5I82 (Part 23): 2806	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	29		60	μg/m³	CPCB Guidelines, Volume 1.36	/2012-13. Page no.15: 2013
Lead (Pb)	BLQ (LOQ:0.0	02)	1	μg/m³	EPA/625/R-96/00 a Compendium Method ID-216 3.2	
Carbon Monoxide (CO)	1.36		4	mg/m³	CPC8 Guidelines, Volume II. 37/2017-13, Page no.16:20	
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	µg/m³	CPC8 Goldelines, Volume 1,36/2012-13, Page no.35: 201	

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

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

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AEC/F/REP/1-B Page no.1 of 1





Sample ID: AA/10/22/5361	Report No : AA/10/22/5361	Report Date	19/10/2022			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.					
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air			
Sampling Location	OWC Kurla	Date-Sampling	11/10/2022 to 12/10/2022			
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	13/10/2022			
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/10/2022			
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	18/10/2022			
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938/			

Mete	orological D	Data / E	nvironi	menta	I Conditions	i
Average Wind velocity 10 km/h	Wind Direction Relative		ve Humidity		Temperature x./Min.) 31/28°C	Duration of Survey 24 h
Parameter	Results		NAAQS# 2009	Unit	Mi	ethod
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	8.4		80	µg/m³	IS 5882 (Part 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	22.1		. 80	µg/m³	IS 5(82 (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	66		100	μg/m³	IS 5/82 (Part 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	32		60	μg/m³	CPCB Suidelines, Valume 1.36/2012-13, Page no JS: 2013	
Lead (Pb)	BLQ (LOQ:0.02)		1	μg/m³	EPA/625/R-96/010 a Compondium Method IO-3.1 6 3.2	
Carbon Monoxide (CO)	1.64		4	mg/m³	CPD8 Guidelines, Volume II, 37/2012-12, Page no.16-2013	
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:20)		400	μg/m³	CPCB Guidelines, Volume 1.36/2012-13, Page no 35: 2013	

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

TWA Time Weighted Average # NAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



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AEC/F/REP/1-B Page no.1 of I





AMRIENT ATR CHALTTY MONTTORING DEPORT

Sample ID: AA/10/22/5362	Report No.: AA/10/22/5362	Report No.: AA/10/22/5362 Report Date			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1 <sup>st</sup> Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.				
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air		
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	11/10/2022 to 12/10/2022		
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder each	Date-Receipt of Sample	13/10/2022		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/10/2022		
Order Reference	As Per Mail Dated 14.07.2022	Date-Completion of Analysis	18/10/2022		
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3934/		

Mete	orological D	Data / E	nviron	menta	I Conditions	;
Average Wind velocity 10 km/h	Wind Direction Relativ		Relative Humidity ex./Min.):75/69%		Temperature x./Min.) 31/28°C	Duration of Survey 24 h
Parameter	Results		NAAQS# 2009	Unit	M	ethod
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	5.2		80	µg/m³	IS 5182 (Part 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	17.4		80	µg/m³	IS SIEZ (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	55		100	μg/m³	IS 5/82 (Part 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	24		60	µg/m³	CPCB Guidelines, Volume I.36/2012-13, Page no.15: 2013	
Lead (Pb)	BLQ (LOQ:0.02)		10	μg/m³	EPA/625/R-96/00 a Compensium Method IO-31 6 3.2	
Carbon Monoxide (CO)	0.93		4	mg/m <sup>3</sup>	CPC8 Suidelines, Valume II. 37/2012-13. Page no.16-2013	
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:20)		400	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.35: 201	

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

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

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AEC/F/REP/I-B Done no Lof I





AMPIENT ATP QUALITY MONTTORING REPORT

Sample ID: AA/11/22/5699 Report No.: AA/11/22/5699		Report Date	26/11/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	18/11/2022 to 19/11/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	21/11/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	21/11/2022
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/11/2022
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

Meteo	orological D	Data / E	nvironr	nenta	I Conditions		
Average Wind velocity 11 km/h	Wind Direction SE	Wind Direction Relative Humidity Temperature		Temperature	Duration of Survey 24 h		
Parameter	Results		NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO₂)	6.3		80	µg/m³	% 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	20.3		80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	67		100	µg/m³	IS 5/82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	26		60	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.02)		1	µg/m³	EPA/625/R-96/BID a Compendium Method ID-31 S 3.2		
Carbon Monoxide (CO)	0.8		4	mg/m³	CPCB Guidelines, Yolume 11, 37/2012-13, Page no.16:2013		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2		400	µg/m³	CPC8 Guidelines, Volume L36/2012-13, Page no 35: 201		

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

TWA Time Weighted Average
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by







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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/11/22/5696	Report No.: AA/11/22/5696	port No.: AA/11/22/5696 Report Date			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,			
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air		
Sampling Location	Project Office Sahar	Date-Sampling	18/11/2022 to 19/11/2022		
Sample Quantity/ Packing	PM <sub>10</sub> , Lead; 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO <sub>3</sub> : no. bladder	olter paper apper apper titic bottle Date-Receipt of Sample stic bottle			
Sampling Procedure	As per Method Reference	Date-Start of Analysis	21/11/2022		
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/11/2022		
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No. ECL/AEC/2 21/FLOW/3			

Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/

Meteo	rological D	Data / E	nvironr	nenta	I Conditions	
Average Wind velocity 11 km/h	Wind Direction SE	Wind Direction Relative Humidity Temperature		Temperature (./Min.) 33/29°C	Duration of Survey 24 h	
Parameter	Result		NAAQS # 2009	Unit	M	ethod
Chemical Testing; Group: /	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	8.4		80	µg/m³	IS 5182 (Part 2): 2001	
Nitrogen Dioxide (NO₂)	20.6		80	μg/m³	IS 5(82 (Part 6): 2006	
Particulate Matter (size less than 10 μm) or PM <sub>10</sub>	72		100	µg/m³	IS 5IB2 (Part 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	32		60	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Pege no.15; 2013	
Lead (Pb)	BLQ (LOQ:0.		1 μg/m³ ΕΡΑ/625/R-S6/000 a Compandum Met			
Carbon Monoxide (CO)	0.9		4	mg/m³	CPCB Guidelines, Volume N. 37/2012-13, Page no.16:2012	
Ammonia (NH <sub>3</sub> )	BLQ (LOO:2		400	µg/m³	CPC8 Guidelines, Volume 1,36/2012-13, Page no.35; 20	

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur
Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





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## AMBIENT ATP QUALITY MONITORING REPORT

Sample ID: AA/11/22/5697 Report No.: AA/11/22/5697		Report Date	26/11/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	18/11/2022 to 19/11/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	21/11/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	21/11/2022
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Apalysis	
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3935A

Meter	orological D	Data / E	nvironr	nenta	I Conditions		
Average Wind velocity 11 km/h	Wind Direction SE	Wind Direction Relative Humidity Temperature		Temperature	Duration of Survey 24 h		
Parameter			NAAQS# 2009	Unit	Me	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	7.4		80	µg/m³	IS 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	18.5		80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM10	70		100	µg/m³	IS 5/82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	27		60	μg/m³	CPCB Guidelines, Volume I.36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 6		
Carbon Monoxide (CO)	1.13 4 mg/m³ CPC8 Guidelines, Volume II, 37/2		77/2012-13. Page no.IG:2013				
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, 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, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/11/22/5698	Report No.: AA/10/22/5698	Report Date	26/11/2022
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatior 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	18/11/2022 to 19/11/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	21/11/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	21/11/2022
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/11/2022
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2020- 21/FLOW/3938A

Mete	orological D	Data /	Environ	nenta	I Conditions	1	
Average Wind velocity 11 km/h	Wind Direction SE	Wind Direction Relative Humidity Temperature		Temperature	Duration of Survey 24 h		
Parameter	Result			Unit	Me	fethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	9.5		80	µg/m³	IS SI82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	24.4		80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	79		100	µg/m³	IS 5182 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	36		60	µg/m³	CPCB Guidelines, Volume I,36/2012-13. Page no. 65: 2013		
Lead (Pb)	BLQ (LOQ:0.02)		1	µg/m³	EPA/625/R-SG/010 a Compendium Method ID-31 S 3.2		
Carbon Monoxide (CO)	1.31		4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16:2013		
Ammonia (NH <sub>3</sub> )	BLQ (LOO:3)	0)	400	µg/m³	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, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonia. Lhour TWA in case of Carbon Monoxide

in Engineers & Co

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by







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AMPIENT ATP QUALITY MONITORING REPORT

ample ID: AA/12/22/5356 Report No.: AA/12/22/5356		Report Date	16/12/2022	
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air	
Sampling Location	Project Office Sahara	Date-Sampling	08/12/2022 to 09/12/2022	
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no, Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no, plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	10/12/2022	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	10/12/2022	
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	15/12/2022	
Sampling Equipment ID	AEC/TH/RDS-02 Calibration Certificate N		ECL/AEC/2022- 23/FLOW/3936A	

Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Meteo	orological D	Data / E	nvironn	nenta	I Conditions		
Average Wind velocity 9,6 km/h	Wind Direction SW		Humidity		Temperature c./Min.) 32/26°C	Duration of Survey 24 h	
Parameter	Result		NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	7.4		80	µg/m³	'rm3   IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	25.7		80	µg/m³	IS 5882 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	80		100	µg/m³	(S SI82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	38		60	μg/m³	CPCB Guidelines, Volume L36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.		1	μg/m <sup>3</sup> EPA/625/R-96/010 a Compendium Method			
Carbon Monoxide (CO)	0.98		4	mg/m³	CPCB Guidelines, Valume II. 37/2012-13. Page no.16:		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2		400	µg/m³	CPCB Suidelines, Volume 1,36/2012-13, Page no. 35: 2012		

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

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/12/22/5357	Report No.: AA/12/22/5357 Report Date 16/12/2022				
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,			
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air		
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	08/12/2022 to 09/12/2022		
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	10/12/2022		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	10/12/2022		
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis			
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3935		

Mete	orological D	Data / E	nvironr	nenta	I Conditions		
Average Wind velocity 9.6 km/h	Wind Direction SW	Relative	Humidity 1.):70/67%		Temperature (./Min.) 32/26°C	Duration of Survey 24 h	
Parameter	Result	s	NAAQS# 2009	Unit	Method		
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO₂)	6.3		80	µg/m³	IS 5882 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	24		80	µg/m³	IS 5482 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	78		100	µg/m³	IS 5182 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	34		60	µg/m³	CPCB Guidelines, Volume 1,35/2012-13, Page no.55: 2013		
Lead (Pb)	BLQ (LOQ:0.02)		1	µg/m³	EPA/625/R-96/DIG a Congendum Nethod IG-2J 6		
Carbon Monoxide (CO)	1.03		4	mg/m <sup>3</sup>	CPCB Suidelines, Volume R, 37/2012-13, Page no.16		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	µg/m³	CPCB Guidelines, Volume 1,35/2012-13, 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, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by





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AMBIENT ATP CHALTTY MONITORING DEPORT

Sample ID: AA/12/22/5358	Report No.: AA/12/22/5358	No.: AA/12/22/5358 Report Date 1			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,			
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air		
Sampling Location	OWC Kurla	Date-Sampling	08/12/2022 to 09/12/2022		
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2,5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	to. Filter paper ter paper plastic bottle plastic bottle plastic bottle Date-Receipt of Sample			
Sampling Procedure	As per Method Reference	Date-Start of Analysis	10/12/2022		
Order Reference	Work Order No.5700316635 Date-29,10,2022	Date-Completion of Analysis	15/12/2022		
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3938A		

Mete	orological D	Data / E	nviron	nenta	I Conditions		
Average Wind velocity 9.6 km/h	Wind Direction SW	Relative Humidity Temperature (Max./Min.):70/67% (Max./Min.) 32/26°C		Temperature	Duration of Survey 24 h		
Parameter	Result	s	NA AOR al		S-75.010 77.000 XXXX	fethod	
Chemical Testing; Group:	Atmospheric Poll	lution					
Sulphur Dioxide (SO <sub>2</sub> )	9.5		80	μg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	27.4		80	µg/m³	IS 582 (Pert 6): 2005		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	82		100	µg/m³	IS 5182 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	42		60	µg/m³	CPCB Guidelines, Volume 1.36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.02)		1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 6		
Carbon Monoxide (CO)	1.24		4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16:2		
Ammonia (NH <sub>3</sub> )	BLQ (LOO:20)		400	µg/m³	CPC8 Guidelines, Volume 1,36/2012-13, Page na 35-2		

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, PM16, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

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## AMRIENT ATP QUALITY MONTTORING PEPOPT

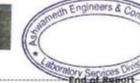
Sample ID: AA/12/22/5359	Report No : AA/12/22/5359	16/12/2022	
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkoper)	Date-Sampling	08/12/2022 to 09/12/2022
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>25</sub> : 30 ml x 6 no. plastic bottle		10/12/2022
Sampling Procedure	As per Method Reference	Date-Start of Analysis	10/12/2022
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	15/12/2022
Sampling Equipment 1D	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3934A

Mete	orological D	Data / Envir	onn	nenta	I Conditions	3	
Average Wind velocity 9.6 km/h	Wind Direction SW	Relative Humid (Max./Min.):70/	tive Humidity Temperature		Temperature	Duration of Survey 24 h	
Parameter	Result		QS#	Unit	M	Method	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	8.4			μg/m³	IS 5(82 (Part 2): 200)		
Nitrogen Dioxide (NO <sub>2</sub> )	23.7		1	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	70		0	µg/m³	IS 5182 (Port 22): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	30			µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.02)			µg/m³	EPA/625/R-S6/010 a Compendium Method 10-3.1		
Carbon Monoxide (CO)	0.99			mg/m³	CPCB Guidelines, Volume II, 37/2012-13. Page no.16		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	90	0	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.35;		

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

TWA Time Weighted Average
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>19</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT ATRICULALITY MONITORING REPORT

Sample ID: AA/01/23/6066	Report No.: AA/01/23/6066	Report Date	01/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	inal Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	23/01/2023 to 24/01/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	27/01/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	27/01/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	01/02/2023
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936A

Meter	orological D	Data / E	nvironr	nenta	I Conditions	i	
Average Wind velocity 9.8 km/h	Wind Direction SE	on Relative Humidity Temperature			Duration of Survey 24 h		
Parameter	Result		NAAQS# 2009	Unit	Mi	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	8.4		80	µg/m³	IS 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	26.3		80	µg/m³	(\$ 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	74		100	μg/m³	IS 5/82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	35 60 μg/m³ CPCB Guidelines. Volume 1.36/2		5/2012-13. Page no.15: 2013				
Lead (Pb)	BLQ (LOQ:0.0	02)	1	μg/m³	EPA/625/R-96/010 a Compendium Method ID-31 6 3		
Carbon Monoxide (CO)	0.86		4	mg/m <sup>3</sup>	CPCB Guidelines. Volume II. 37/2012-12. Page no.16:20		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	μg/m³	CPCB Guidelines. Volume 1.36/2012 (3. 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, PM<sub>III</sub>, PM<sub>2</sub> s. Lead and Ammonia, J. hour TWA in case of Carbon Monoxide

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End of Report----

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/01/23/6067	Report No. AA/01/23/6067	Report Date	01/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation. 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	23/01/2023 to 24/01/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	3 no. Filter paper Filter paper 10. plastic bottle	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	27/01/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis 1	
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3935A

Meter	orological D	Data / E	nvironr	nenta	I Conditions		
Average Wind velocity 9.8 km/h	Wind Direction SE	Relative	Humidity .):71/68%		Temperature c./Min.) 31/28°C	Duration of Survey 24 h	
Parameter	Result	s	NAAQS# Unit		M	Method	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	7.4		80	μg/m³	IS 5887 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	25.7		80	µg/m³	IS 5(82 (Part 6): 2005		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	72		100	μg/m³	IS 5887 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	31		60	μg/m³	CPC8 Guidelines, Valume 1,36/2017-13, Paga no 15: 2013		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	µg/m³	EPA/625/R-96/010 a Compendium Method (0-31 6 12		
Carbon Monoxide (CO)	0.94		4	mg/m <sup>3</sup>	CPC8 Guidelines, Volume II, 37/2012-13, Page na.16-2013		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	µg/m³	CPC8 Guidelines, Volume 1,36/2012-13, 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, PM15, PM25, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT ATD CHALTTY MONTTODING DEDORT

Sample ID: AA/01/23/6068	Report No.: AA/01/23/6068	Report Date	01/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	23/01/2023 to 24/01/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	27/01/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	27/01/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	01/02/2023
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3938A

Meter	orological D	Data / E	Environ	nenta	I Conditions		
Average Wind velocity 9.8 km/h	Wind Direction SE	Relativ	e Humidity in.):71/68%		Temperature x./Min.) 31/28°C	Duration of Survey 24 h	
Parameter	Result	NAADS #		Unit	Method		
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	10.5		80	µg/m³	(S S(82 (Part 2): 200)		
Nitrogen Dioxide (NO <sub>2</sub> )	28.2		80	μg/m <sup>3</sup>	IS 5882 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	86		100	µg/m³	IS 5182 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	45		60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no IS:		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	μg/m³	EPA/625/R-96/010 a Compendium Method IO-31 6 3.2		
Carbon Monoxide (CO)	1.39	0.00	4	mg/m <sup>3</sup>	CPC8 Guidelines. Volume II. 37/20/2-13, Page no.16-20/3		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	µg/m³	CPC8 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, PM<sub>20</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AEC/F/REP/1-B Page no. 1 of 1





AMBIENT ATR QUALITY MONITORING REPORT

Sample ID: AA/01/23/6069	Report No.: AA/01/23/6069	Report Date	01/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationi 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	23/01/2023 to 24/01/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Filter paper paper stic bottle stic bottle Date-Receipt of Sample	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	27/01/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3934A

Mete	orological D	Data / E	nvironr	nenta	I Conditions	i	
Average Wind velocity 9.8 km/h	Wind Direction SE		Humidity n.):71/68%	(Ma	Temperature x./Min.) 31/28°C	Duration of Survey 24 h	
Parameter	Result	s	NAAQS# 2009	Unit	Me	Method	
Chemical Testing; Group:	Atmospheric Poll	lution					
Sulphur Dioxide (SO <sub>2</sub> )	6.3		80	µg/m³	IS 5/82 (Part 7): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	22		80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	68		100	µg/m³	IS 5/82 (Part 22): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	27		60 µg/m³ DPD8 Guidelines, Volume 1,36/2012-13, Pag		/2012-13. Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	µg/m³	EPA/625/R-95/DIO a Compendium Method IO-31 6 3.2		
Carbon Monoxide (CO)	0.63		4	mg/m3	CPCB Guidelines, Volume II, 37/2012-13, Page no.16:2013		
Ammonia (NH <sub>2</sub> )	BLQ (LOO:20	0)	400	µg/m³	CPC8 Guidelines, Volume 1,36/2017-13, 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, PM11, PM23, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

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AMBIENT ATD OUGLITTY MONITODING DEPORT

Sample ID: AA/02/23/5785	Report No.: AA/02/23/5785 Report Date		21/02/2023		
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	Chhatrapati Shivaji Maharaj International Airport, * Floor, Terminal 1B, Santacruz (E)			
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air		
Sampling Location	Project Office Sahar	Date-Sampling	14/02/2023 to 15/02/2023		
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	16/02/2023		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	16/02/2023		
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	21/02/2023		
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936/		

Meter	orological D	ata / E	environ	nenta	I Conditions	;	
Average Wind velocity 9.5 km/h	Wind Direction SE	Relativ	e Humidity in.):70/69%	12885	Temperature x./Min.) 30/28°C	Duration of Survey 24 h	
Parameter	Result	s	NAAQS# 2009	Unit		ethod	
Chemical Testing; Group:	Atmospheric Poll	lution					
Sulphur Dioxide (SO <sub>2</sub> )	7.4		80	µg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	25.1		80	µg/m³	IS 582 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	86		100	µg/m³	IS 5/82 (Part 28): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	41		60	µg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.15: 2013		
Lead (Pb)	BLQ (LOQ:0.0	12)	1	µg/m³	EPA/625/R-96/000 a Compendium Method ID-31 B 3.2		
Carbon Monoxide (CO)	0.98		4	mg/m³	CPC8 Guidelines, Valume II, 37/2012-13, Page no.16:2012		
Ammonia (NH <sub>3</sub> )	27.2		400	ua/m³	CPCR Guidelines, Valume I 36/2012-13, Page on 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, PM<sub>16</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AEC/F/REP/1-B Page no.1 of I





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/02/23/5786	Report No.: AA/02/23/5786	Report Date	21/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationa 1* Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	ntacruz (T1) Date-Sampling	
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	16/02/2023
Sampling Procedure	As per Method Reference	As per Method Reference Date-Start of Analysis	
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	21/02/2023
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	

Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Mete	orological [	Data / I	Environ	menta	I Conditions	
Average Wind velocity 9.8 km/h	Wind Direction SE		e Humidity in.):71/69%	(Ma	Temperature x./Min.) 30/29°C	Duration of Surve
Parameter	Result	Results NAA		Unit	М	ethod
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	6.3		80	µg/m³	IS SIB2 (Pert 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	23.7		80	µg/m³	IS 5I82 (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	78		100	µg/m³	IS SI82 (Pert 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	35		60	µg/m³	CPC8 Guidelines, Volume 1.36/2012-13, Page no.15: 2013	
Lead (Pb)	BLQ (LOQ:0.02) 1 μg/m <sup>3</sup> ΕΡΑ/62		EPA/625/R-96/018 a Comp	endium Method ID-31 & 3.2		
Carbon Monoxide (CO)	1.13 4 mg/m³ EP		CPCB Guidelines, Volume 11, 3	77/2012-13, Page no.16:2013		
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:2	0)	400	μg/m³	CPCB Guidelines, Volume 1,36/2012-13, Page no.35: 2013	

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

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

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AEC/F/REP/1-B





AMPIENT ATP CHALTTY MONTTOPING PERCET

Sample ID: AA/02/23/5787	Report No.: AA/02/23/5787	Report Date	21/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationa 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	14/02/2023 to 15/02/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	16/02/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	16/02/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	21/02/2023
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No. ECI 23/	

Meter	orological D	Data / E	nvironr	nenta	<b>Conditions</b>	;	
Average Wind velocity 10 km/h	Wind Direction NE	Relativ	e Humidity in.):79/72%	1	Temperature x./Min.) 30/28°C	Duration of Survey 24 h	
Parameter	Result	s	NAAQS# 2009	Unit	Me	ethod	
Chemical Testing; Group:	Atmospheric Poll	lution					
Sulphur Dioxide (SO <sub>2</sub> )	9.5		80	µg/m³	IS SIR2 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	27.4		80	µg/m³	IS 5(82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	89		100	µg/m³	IS SIRZ (Part Z3): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	48		60	µg/m³	CPC8 Guidelines, Volume 1.35	6/2012-13, Page no.15: 2013	
Lead (Pb)	BLQ (LOQ:0.0	02)	1	µg/m³	EPA/E25/R-9E/DID a Compendium Method ID-316 3.2		
Carbon Monoxide (CO)	1.48	1000	4	mg/m³	CPCB Suidelines, Volume II, 37/2012-13, Page no.16:2013		

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

TWA Time Weighted Average

Ammonia (NH<sub>3</sub>)

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

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



µg/m³ CPCB Guidelines, Volume 1,36/2012-13, Page no.35: 2013



AEC/F/REP/I-B





AMBIENT ATR QUALITY MONITORING REPORT

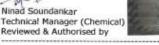
Sample ID: AA/02/23/5788	Report No.: AA/02/23/5788	Report Date	21/02/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationa 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Ghatkopar) Date-Sampling	
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	16/02/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	16/02/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	
Sampling Equipment ID	AEC/TH/RDS-05	H/RDS-05 Calibration Certificate No. 23	

Mete	orological D	ata /	Environ	nenta	I Conditions	1	
Average Wind velocity 9.8 km/h	Wind Direction SE	Relati	ve Humidity lin.):70/68%	y Temperature		Duration of Survey 24 h	
Parameter	Result	NAAOCA		Method			
Chemical Testing; Group:	Atmospheric Poll	lution					
Sulphur Dioxide (SO <sub>2</sub> )	8.4		80	µg/m³	IS 5882 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	24		80	µg/m³	IS 5182 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	74		100	µg/m³	IS 5(82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	32	32		μg/m³	CPCB Guidelines, Volume 1,35/2012-13, Page no.15: 201		
Lead (Pb)	BLQ (LOQ:0.0	12)	1	µg/m³	EPA/525/R-S6/010 a Compandium Method 10-3.1 S		
Carbon Monoxide (CO)	0.84		4 mg/m³ CPCB Guidelines, Volume II. 37/28/2-13, Pa		7/2012-13, Page no.16:2013		
Ammonia (NH <sub>3</sub> )	25.8		400	µg/m³	DPCB Guidelines, Volume L36/2012-13, 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, PM16, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

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AEC/F/REP/1-B





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RIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/03/23/5771	Report No.: AA/03/23/5771	Report Date	29/03/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationa 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	21/03/2023 to 22/03/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2x</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	er paper plastic bottle Date-Receipt of Sample	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	24/03/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	29/03/2023
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936/

Meter	orological D	oata / E	Environ	menta	I Conditions	
Average Wind velocity 14 km/h	Wind Direction W	7.50.0000000000000000000000000000000000	Relative Humidity   Temperature   (Max./Min.):68/58%   (Max./Min.) 30/22°C     NAAQS # 2009   Unit   Unit   Compared to the			Duration of Survey 24 h
Parameter	Result	s			Me	ethod
Chemical Testing; Group:	Atmospheric Poll	lution				
Sulphur Dioxide (SO <sub>2</sub> )	8.3		80	µg/m³	IS 5/82 (Part 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	27.3		80	µg/m³	IS SIB2 (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	82		100	µg/m³	IS 5/82 (Part 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	39		60	µg/m³	CPC8 Guidelines. Volume 1.36/2012-CJ. Page no.15: 2013	
Lead (Pb)	BLQ (LOQ:0.0	02)	3	µg/m³	EPA/625/R-96/010 a Compendium Method IB-31 6 3	
Carbon Monoxide (CO)	0.83	0.83 4 mg/m³ CPCB Guidelines. Valurie II. 37/2		77/2012-13. Page no.16-2013		
Ammonia (NH <sub>1</sub> )	30		400	µg/m³	CPC8 Guidelines, Volume L36/2012-13, Page no.35, 2913	

BLO: Below Limit of Quantification, LOQ: Limit of Quantification

TWA Time Weighted Average
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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3. In case sampling is not done by laboratory, the results apply to the sample as received.

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



AEC/F/REP/1-8 Page no.1 of I





Sample ID: AA/03/23/5772	Report No.: AA/03/23/5772	Report Date	29/03/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	21/03/2023 to 22/03/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	24/03/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	24/03/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936/

Mete	orological D	Data / I	Environ	nenta	I Conditions	;	
Average Wind velocity 14 km/h	Wind Direction W	Relative Humidity Temperature			Duration of Survey 24 h		
Parameter	Result	s	NAAOS#		M	Method	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	6.3		80	µg/m³	IS 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	25.1		80	µg/m³	IS 5982 (Part 5): 2006		
Particulate Matter (size less than 10 μm) or PM <sub>10</sub>	76		100	μg/m³	IS 5/82 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	34	34		µg/m³	CPCB Guidelines. Valume 1,36/2012-12. Page no. Er. 201		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	μg/m³	EPA/625/R-96/010 a Compendium Method IO:31 6 3		
Carbon Monoxide (CO)	1.23	9.8%	4	mg/m <sup>3</sup>	CPCB Guidelines, Volume II, 27/2012-13. Page no.16-200		
Ammonia (NH <sub>3</sub> )	27.8		400	µg/m³	CPC8 Suidelines, Volume 1,36/202-13, Page no.35; 2003		

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

TWA Time Weighted Average
\* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide





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AEC FREP 1-B Page no.1 of I





AMBIENT ATP QUALITY MONITORING REPORT

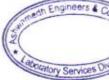
Sample ID: AA/03/23/5773	Report No.: AA/03/23/5773	Report Date	29/03/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatioi 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	21/03/2023 to 22/03/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	24/03/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	24/03/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022		
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936A

Meter	orological [	Data / E	nvironi	menta	I Conditions		
Average Wind velocity 14 km/h	Wind Direction W	Relative	Humidity 1.):68/58%		Temperature x./Min.) 30/22°C	Duration of Surve	
Parameter	Result	s	NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	9.4		80	µg/m³	IS 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	29.5	29.5		µg/m³	IS S82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	93	93		μg/m³	IS 5/82 (Part 73): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	50	50 60 μg/m³ CPC8 Guidelines. Vol		CPC8 Guidelines, Volume 1.38	5/7012-13. Page no. 55: 2013		
Lead (Pb)	BLQ (LOQ:0.0	02)	1	µg/m³	EPA/EZS/R-96/IRB a Compendium Method IB-33		
Carbon Monoxide (CO)	1.68	1.68 4 mg/m <sup>3</sup> CPCB Guidelines. Yolune II. 37/200		77/2012-CL Page no.8E-2003			
Ammonia (NH <sub>3</sub> )	31.5		400	µg/m³	CPCB Guidelines, Volume 1.36/2017-13. Page no.35: 2013		

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

BLQ: Below Limit of Quantification, 1872.
TWA Time Weighted Average
# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>20</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

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AMPLEME AND OURS TTV MONITORING DEPORT

Sample ID: AA/03/23/5774	Report No.: AA/03/23/5774	Report Date	29/03/2023
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	21/03/2023 to 22/03/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Iter paper aper tic bottle tic bottle Date-Receipt of Sample	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	24/03/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	29/03/2023
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936/

Mete	orological D	Data / E	nvironi	menta	I Conditions	
Average Wind velocity 14 km/h	Wind Direction W		e Humidity n.):68/58%	68/58% (Max./Min.) 30/22°C		Duration of Survey 24 h
Parameter	Result	s	NAAQS# 2009			Method
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	7.3		80	µg/m³	IS 5182 (Part 7): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	26.8		80	µg/m³	IS SIR2 (Part 6): 2006	
Particulate Matter (size less than 10 μm) or PM <sub>10</sub>	81		100	µg/m³	IS SIB2 (Part 23): 2006	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	42		60	μg/m³	CPCB Guidelines, Volume 1,36/2012 43, Page no.5: 2013	
Lead (Pb)	BLQ (LOQ:0.0		1	µg/m³	EPA/625/R-96/010 a Compandium Method IG-31 6	
Carbon Monoxide (CO)	1.08		4	mg/m³	CPCB Guidelines. Volume II. 37/2012-13. Page no 95-200	
Ammonia (NH <sub>1</sub> )	24		400	µg/m³ DPDB Guidelines. Volume 1.36/2017-13. Page no.3		i/2012-13. Page no.35; 2013

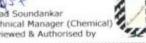
BLO: Below Limit of Quantification, LOQ: Limit of Quantification

TWA Time Weighted Average

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

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# NOISE LEVEL MEASUREMENT REPORT

			PAYTROLL SUCCESSORIES TO THE
Sample ID: N/11/22/3481	Report No.: N/11/22/3481N	30/11/2022	
Name and Address of Customer	Mumbal International Airport Ltd- Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E, Mumbai - 400099	ort,	7
Monitoring Done By	Laboratory	Sample Description /Type	DG Set I Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No		Location Time (h)	Sou	Sound Level dB (A) Fast Response				
	Location		A	Inside	В	Outside	Difference	
DG I Util	ity T-2 (3000 kV	/A)						
1	East	1100 -	A1	85.7	B1	60.7	25.0	
2	West	1105	A2	86.2	B2	60.9	25.3	
3	South	1110	A3	92.9	В3	67.8	25.1	
4 Nort	North	1120	A4	90.3	B4	63.7	26.6	
			Average	88.77	Average	63.27	25.5	

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aboratory Services Division







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NOTSE LEVEL MEASUREMENT REPORT

	MOTSE FEATURE LIEVOOKEL	milet items office	The second second second
Sample ID: N/11/22/3482	Report No.: N/11/22/3482N	30/11/2022	
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set II Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date. 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022		Sr. No.	2016083645

Sr No Location			Sou	und Level dB	(A) Fast Respo	nse	Difference
	Time (h)	A	Inside	В	Outside	Difference	
DG II Uti	lity T-2 (3000 k	VA)					
1	East	1100	A1	87.5	B1	61.7	25.8
2	West	1105	A2	85.2	82	58.3	26.9
3	South	1110	A3	90.7	B3	64.7	26.0
	North	1120	A4	89.3	B4	64.2	25.1
207.4			Average	88.17	Average	62.22	25.95

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NOTSELEVEL MEASUREMENT REPORT

	NOISE LEVEL MEASURE	LIVI KET OKT	1
Sample ID: N/11/22/3483	Report No.: N/11/22/3483N Report Da		30/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort, ),	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set III Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabai & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022		2016083645

Sr No Location			Sou	ınd Level dB	(A) Fast Respo	nse	Difference
	Location Time (h) A	Inside	В	Outside	Dinerence		
DG III U	tility T-2 (3000	kVA)					
1	East	1100	A1	86.7	B1	61.2	25.5
2	West	1105	A2	87.3	B2	60.9	26.4
3	South	1110	A3	89.9	B3	64.5	25.4
4	North	1120	A4	90.3	B4	64.2	26.1
	143101		Average	88.55	Average	62.7	25.85

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NOTSE LEVEL MEASUREMENT REPORT

	HOTOL ELACE LIEVOOKEL		
Sample ID: N/11/22/3484	Report No. N/11/22/3484N Report Date		24/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set IV Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No Location			Sou	and Level dB	(A) Fast Respo	nse	-144
	Time (h)	A	Inside	В	Outside	Difference	
DG IV Ut	lity T-2 (3000 k	VA)					
1	East	1100	A1	87.4	B1	62.4	25.4
2	West	1105	A2	90.7	B2	65.7	25.0
3	South	1110	A3	89.5	В3	63.3	26.2
4	North	1120	A4	92.3	B4	66.4	25.9
			Average	89.97	Average	64.45	25.62

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### NOISE LEVEL MEASUREMENT REPORT

	MOTSE FEAFF MENSONEL	ILITI ILLI OILI	
Sample ID: N/11/22/3485	Report No. N/11/22/3485N Report Date		24/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set V Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No			Sou	und Level dB	(A) Fast Respo	nse	Difference
	Location	Time (h)	A	Inside	В	Outside	
DG V Util	ity T-2 (3000 k)	/A)					
1	East	1100	A1	88.3	B1	62.6	25.7
2	West	1105	A2	90.5	B2	64.5	26.0
3	South	1110	A3	92.8	B3	67.1	25.7
4 1	North	1120	A4	89.8	B4	64.7	25.1
			Average	90.35	Average	64.72	25.62

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## NOISE LEVEL MEASUREMENT REPORT

	110101		
Sample ID: N/11/22/3486	Report No.: N/11/22/3486N	30/11/2022	
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set VI Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	21/11/2022
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	Sent Number & Date. 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022		2016083645

Sr No Location	AND STREET, STREET		Sou	und Level dB	(A) Fast Respo	nse	Difference
	Time (h)	A	Inside	В	Outside	Difference	
DG VI Ut	lity T-2 (3000 k	VA)					
1	East	1100	A1	85.2	B1	60.1	25,1
2	West	1105	A2	90.4	B2	64.9	25.5
3	South	1110	A3	92.2	В3	67.2	24.0
4	North	1120	A4	91.3	B4	65.3	26.0
			Average	89.77	Average	64.37	25.15

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## STACK EMISSION MONITORING REPORT

Sample ID: SA/11/22/5748 Report No.: SA/11/22/5748		Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
	PM: 1 no. thimble	Date - Sampling	21/11/2022
Sample Quantity/Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	22/11/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FIOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

Consent Number & Date Forma	1.0/CAC/UAN NO.00001111200/	CIQ 2203000010 Date 13.03.2022

Stack Details					
~Stack Identity	DG 1	DG 1			
~Stack attached to	DG Set-1 Utili	ty T-2 (3000 KVA)			
~Material of construction	M.S				
~Stack height above ground level	31 m				
~Stack diameter	0.50 m	0.50 m			
~Stack shape at top	Round				
~Type of Fuel	HSD				
~Fuel Consumption	330 L/h				
Parameter	Result	Limits as per MPCB consent	Unit	Method	

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmo	ospheric Pollution			
Flue Gas Temperature	142	34	°C	IS H255 (Part 3):2008
Flue Gas Velocity	13.2	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	6559		Nm³/h	IS II255 (Part 3):2008
Particulate Matter (PM)	19	150	mg/Nm³	IS II255 (Part I):8985
Sulphur Dioxide (SO <sub>2</sub> )	22.9	Not specified	mg/Nm³	IS 8255 (Part 2):1985
Sulphur Dioxide (SO <sub>2</sub> )	3.6	Not specified	Kg/d	IS 1(255 (Part 2):1985
Oxides of Nitrogen (NO <sub>2</sub> )	26.7	Not specified	mg/Nm³	IS I(255 (Part 7):985

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

Disclaimer: Information is supplied by the customer (~) and can affect the validity of results.





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## STACK EMISSION MONITORING REPORT

Sample ID: SA/11/22/5749	Report No.: SA/11/22/5749	Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099, Maharashtra.	t,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
	PM: 1 no. thimble	Date - Sampling	21/11/2022
Sample Quantity/Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	22/11/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FIOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

Consent Number & Date Format:	1.0/CAC/UAN No.0000111260/	CR/2205000810 Date 13.05.2022
-------------------------------	----------------------------	-------------------------------

Stack Details					
~Stack Identity	DG-2	DG-2			
~Stack attached to	DG Set-2 Utilit	ty T-2 ( 3000 KVA)			
~Material of construction	M.S				
~Stack height above ground level	31 m				
~Stack diameter	0.50 m				
~Stack shape at top	Round				
~Type of Fuel	HSD				
~Fuel Consumption	330 L/h				
Parameter	Result	Limits as per MPCB consent	Unit	Method	
Chemical Testing; Group: Atmos	pheric Pollution	1			
Flue Gas Temperature	126		°C	IS II255 (Part 3):2008	
Flue Gas Velocity	13.8		m/s	IS 8255 (Pert 3):2008	
Flue Gas Flow Rate	7106	-	Nm³/h	IS II255 (Part 3):2088	
Particulate Matter (PM)	16	150	mg/Nm³	IS II255 (Part 1):1985	
Sulphur Dioxide (SO <sub>2</sub> )	15.7	Not specified	mg/Nm³	IS II255 (Part 2):1985	
Sulphur Dioxide (SO <sub>2</sub> )	2.7	Not specified	Kg/d	IS 1/255 (Part 2):1985	
Oxides of Nitrogen (NO2)	23.1	Not specified	mg/Nm³	IS 11255 (Part 7):1985	

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# STACK EMISSION MONITORING REPORT

Sample ID: SA/11/22/5750	Report No.: SA/11/22/5750	Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.	t,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
	PM: 1 no. thimble	Date - Sampling	21/11/2022
Sample Quantity/Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	22/11/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FLOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

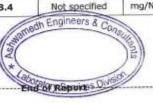
Stack Details			
~Stack Identity	DG-3		
~Stack attached to	DG Set-3 Utility T-2 (3000 KVA)		
- Material of construction	M.S		

31 m ~Stack height above ground level 0.50 m ~Stack diameter Round ~Stack shape at top HSD ~Type of Fuel

~Fuel Consumption	330 L/h				
Parameter	Result	Limits as per MPCB consent	Unit	Method	
Chemical Testing; Group: Atn	nospheric Pollution	L.			
Flue Gas Temperature	140	1	°C	15 11255 (Part 3):2008	
Flue Gas Velocity	14.6		m/s	IS II255 (Part 3):2008	
Flue Gas Flow Rate	7102		Nm³/h	IS II255 (Part 3):2008	
Particulate Matter (PM)	21	150	mg/Nm³	IS 9255 (Part I):ISBS	
Sulphur Dioxide (SO <sub>2</sub> )	17.1	Not specified	mg/Nm³	IS 1(255 (Part 2):1985	
Sulphur Dioxide (SO <sub>2</sub> )	2.9	Not specified	Kg/d	IS 1(255 (Part 2):1985	
Oxides of Nitrogen (NO <sub>2</sub> )	28.4	Not specified	mg/Nm³	IS II255 (Part 7):1985	

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# STACK EMISSION MONITORING REPORT

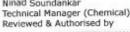
Sample ID: SA/11/22/5751	Report No.: SA/11/22/5751	Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 Maharashtra.	t,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
	PM: 1 no. thimble	Date - Sampling	21/11/2022
Sample Quantity/Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	22/11/2022
Sampling Procedure	1S 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FLOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

Consent Number & Date Forma	: 1.0/CAC/UAN No.0000111260/	CR/2205000810 Date 13.05.2022
-----------------------------	------------------------------	-------------------------------

Stack Details	-			
~Stack Identity	DG-4			
~Stack attached to	DG Set-4 Utili	ty T-2 (3000 KVA)		
~Material of construction	M.S			
~Stack height above ground level	31 m			
~Stack diameter	0.50 m			
~Stack shape at top	Round			
~Type of Fuel	HSD			
~Fuel Consumption	330 L/h			
Parameter	Result	Limits as per MPCB consent	Unit	Method

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmo	spheric Pollution	1		
Flue Gas Temperature	124	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	14.8	*	m/s	IS II255 (Part 3):2008
Flue Gas Flow Rate	7521	-	Nm³/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	18	150	mg/Nm³	IS II255 (Part I):I985
Sulphur Dioxide (SO <sub>2</sub> )	11.4	Not specified	mg/Nm³	IS II255 (Part 2):1985
Sulphur Dioxide (SO <sub>2</sub> )	2.1	Not specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO <sub>2</sub> )	24.9	Not specified	mg/Nm³	IS f(255 (Part 7):/985

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### STACK EMISSION MONITORING REPORT

Sample ID: SA/11/22/5752	Report No.: SA/11/22/5752	Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle NO2: 25 ml x 1 no. plastic bottle	Date - Sampling  Date - Receipt of Sample	21/11/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FLOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

Stack Details				
~Stack Identity	DG-5			
~Stack attached to	DG Set-5 Utili	ty T-2 (3000 KVA)		
~Material of construction	M.S			
~Stack height above ground level	31 m			
~Stack diameter	0.50 m			
~Stack shape at top	Round			
~Type of Fuel	HSD			
~Fuel Consumption	330 L/h			
		Limits as per	15-74	Mathad

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmo	spheric Pollution	1		
Flue Gas Temperature	132		°C	IS 1(255 (Part 3):2008
Flue Gas Velocity	13.5		m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	7169		Nm³/h	IS 1(255 (Part 3):2008
Particulate Matter (PM)	20	150	mg/Nm³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO <sub>2</sub> )	20	Not specified	mg/Nm³	IS II255 (Part 2):I985
Sulphur Dioxide (SO <sub>2</sub> )	3.4	Not specified	Kg/d	IS 11255 (Part 2):ISBS
Oxides of Nitrogen (NO <sub>2</sub> )	30.2	Not specified	mg/Nm³	IS 11255 (Part 7):1985

End of Report

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### STACK EMISSION MONITORING REPORT

Sample ID: SA/11/22/5753 Report No.: SA/11/22/5753		Report Date	25/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.	t,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
ensen morestore	PM: 1 no. thimble	Date - Sampling	21/11/2022
Sample Quantity/Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	22/11/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	22/11/2022
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	25/11/2022
Calibration Certificate No.	ECL/AEC-2021-22/FLOW/3865A Date 12.01.2022	Sampling Equipment ID	AEC/TH/SMK-06

Stack Details				
~Stack Identity	DG-6			
~Stack attached to	DG Set-6 Utili	ty T-2 (3000 KVA)		
~Material of construction	M.S			
~Stack height above ground level	31 m			
~Stack diameter	0.50 m			
~Stack shape at top	Round			
~Type of Fuel	HSD			
~Fuel Consumption	330 L/h			
	D	Limits as per	Unit	Method

Parameter	Result	MPCB consent	2000	
Chemical Testing; Group: Atmo	spheric Pollution			
Flue Gas Temperature	118		°C	IS II255 (Part 3):2008
Flue Gas Velocity	14.4		m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	7579	-	Nm³/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	24	150	mg/Nm³	IS 11255 (Part I):1985
Sulphur Dioxide (SO <sub>2</sub> )	14.3	Not specified	mg/Nm³	TS H2SS (Part 2):1985
Sulphur Dioxide (SO <sub>2</sub> )	2.6	Not specified	Kg/d	IS H255 (Part 2):1985
Oxides of Nitrogen (NO2)	21.4	Not specified	mg/Nm³	IS 8255 (Part 7):1985
		Caningore 8		

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### TEST REPORT

Sample ID: E/10/22/5073	Report No.: E/10/22/5073	Report Date	17/10/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	onal Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	13/10/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Che	emical Testing; Group: Po	ollution & Environn	nent		
Phy	sical & Chemical Parame	eters			
1.	pH	7.55	5.5-9.0	_	IS 3025 (Part II) ISIS
2.	Total Suspended Solids	14	20	mg/L	IS 3075 (Part II) ISS4
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	APRA 23rd Ed. S220- B 48-2007
5.	Ammonical Nitrogen (as NH3-N)	BLQ (LOQ:0.1)	5	mg/L	APHA.735-1 Ed 4500-WK3 F. 4-119-207
Bio	logical Testing; Group: P	ollution & Environ	ment		
Bac	teriological Parameters				
6.	Faecal Coliforms	27	Less than 100	MPN Index /100ml	APHA, 721° Ed., 9771 E S-77, 2007
BLC	: Below Limit of Quantifica e: Sample ID E/10/22/507	tion, LOQ: Limit of Q 3 bears two Test Rep	uantification orts - E/10/22/5073	and E/10/22/5	5073N

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### TEST REPORT

	TEST REPO	Total Control of the	
Sample ID: E/10/22/5073	Report No.: E/10/22/5073N	Report Date	17/10/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1 <sup>st</sup> 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	13/10/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Che	emical Testing; Group: Po	llution & Enviro	nment		
1.	Total Nitrogen (as N)	5.2	10	mg/L	APMA 23rd Ed. 4500 MKQ B S C. 4 fl4 4 IEE-2007
BLQ	: Below Limit of Quantificati e: Sample ID E/10/22/5073	on, LOQ: Limit of bears two Test R	Quantification eports - E/10/22/5073 a	nd E/10/22/	1.00000

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## TEST REPORT

ILDI KEFC	/KI	
Report No. E/10/22/5072	Report Date	17/10/2022
Customer	Sample Description / Type	Untreated Sewage Effluent
Terminal 1 STP Inlet	Date - Receipt of Sample	13/10/2022
2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022
	Repert No.: E/10/22/5072  Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer  Terminal 1 STP Inlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1* Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer Sample Description / Type  Terminal 1 STP Inlet Dute - Receipt of Sample  2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle Date - Start of Analysis  As the Mail Date of 14 07 2022 Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution 8	k Environment		
Phy	sical & Chemical Parameters			
1.	рН	7	-	IS 3275 (Part II) 680
2.	Total Suspended Solids	92	mg/L	6 3025 (Part IT) (984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	258	mg/L	III 3025 (Part 44) 1953
4.	Chemical Oxygen Demand	660	mg/L	APHA 23H Ed 5220- 8-48-2017
5.	Ammonical Nitrogen (as NH3-N)	28	mg/L	APHA 23rd Ec. 4500 MR3.B E C. 4-84 4-86 200
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 22* Ed 923 E 9-77 2817
	: Sample ID E/10/22/5072 bears tv			

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### TEST REPORT

Report No E/10/22/5072N	Report Date	17/10/2022
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	onal Airport,	
Customer	Sample Description / Type	Untreated Sewage Effluent
Terminal 1 STP Inlet	Date - Receipt of Sample	13/10/2022
2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer  Terminal 1 STP Inlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer Sample Description / Type  Terminal 1 STP Inlet Date - Receipt of Sample 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle  As Bor Mail Dated 14 07 2022 Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		.,
1 To	tal Nitrogen (as N)	30.6	mg/L	APHA 23rd Ed. 4500 MK3.8 S.C. 4-84 4-16-2007

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TEST REPORT

	IEST KEPO	***	
Sample ID: E/10/22/5074	Report No.: E/10/22/5074	Report Date	17/10/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	13/10/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution 8	k Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.8		IS 3025 (Part II) SE3
2.	Total Suspended Solids	98	mg/L	IS 3025 (Part I7) 1984
3,	Biochemical Oxygen Demand (3 Days, 27°C)	232	mg/L	65 3075 (Pert 44) 8993
4.	Chemical Oxygen Demand	680	mg/L	APHA 731° Ed. 5220- B.S- 01207
5.	Ammonical Nitrogen (as NH3-N)	29	mg/L	APHA 23:-3 Ed 4500 NH3 8 E C 4 IIA 4 IIS 200
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA.23" Ed., 923-E, 5-77: 2007







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### **TEST REPORT**

Report No. E/10/22/5074N	Report Date	17/10/2022
Customer	Sample Description / Type	Untreated Sewage Effluent
Terminal 2 STP Inlet	Date - Receipt of Sample	13/10/2022
2 L x 1 no. plastic can 250 ml x 1 no. stenie glass bottle	Date - Start of Analysis	13/10/2022
As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022
	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. Customer  Terminal 2 STP Inlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer Sample Description / Type  Terminal 2 STP Inlet Date - Receipt of Sample 2 L x 1 no. plastic can 250 ml x 1 no. stenie glass bottle Date - Start of Analysis  As Per Mail Dated 14 02 2022 Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Chemical T	esting; Group: Polluti	on & Environment		
1. Total N	litrogen (as N)	33	mg/L	APHA 73I-d Ed. 4500-4013 B E C.4-84.4-10E 2017

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## TEST DEPORT

ILSI KEFO	IX I	
Report No.: E/10/22/5075	Report Date	17/10/2022
Customer	Sample Description / Type	Treated Sewage Effluent
Terminal 2 STP RO Outlet	Date - Receipt of Sample	13/10/2022
2 L x 1 no, plastic can 250 ml x 1 no, sterile glass bottle	Date - Start of Analysis	13/10/2022
As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022
	Report No.: E/10/22/5075  Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Customer  Terminal 2 STP RO Outlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1° Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.  Customer Sample Description / Type  Terminal 2 STP RO Outlet Date - Receipt of Sample  2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle Date - Start of Analysis  As Per Mail Datert 14 07 2022 Date - Completion of

Consent Number &	Date Format 1.0/CA	C/UAN NO. 00001	11260/CR/220	5000810 Date 1	3.05.2022
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Parameter	Result	MPCB Consent	Unit	Method
nical Testing; Group: Pol	lution & Environ	ment		
ical & Chemical Paramet	ers			
Н	7.9	5.5-9.0	-	IS 3025 (Part II) ISS3
Total Suspended Solids	17	20	mg/L	IS 3025 (Part II) ISBN
Biochemical Oxygen Demand (3 Days, 27°C)	9	10	mg/L	IS 3025 (Part 44) (993)
Chemical Oxygen Demand	30	50	mg/L	APHA 23HI Ed. 5220- 8:5-18-2007
Ammonical Nitrogen (as NH <sub>3</sub> -N)	BLQ (LOQ:0.1)	5	mg/L	APHAZS-3 E4 4500-NH3 E 4 165 700
gical Testing; Group: Po	Ilution & Environ	ment		
eriological Parameters				
aecal Coliforms	33	Less than 100	MPN Index /100ml	APHA 72° E± 9275-E, S-77: 7007
	ical & Chemical Paramet  H  otal Suspended Solids biochemical Oxygen bemand (3 Days; 27°C) chemical Oxygen bemand mmonical Nitrogen (as liH;-N) gical Testing; Group: Po priological Parameters laecal Coliforms	ical & Chemical Parameters  H 7.9 otal Suspended Solids 17 liochemical Oxygen 9 lemand (3 Days, 27°C) chemical Oxygen 30 lemmonical Nitrogen (as BLQ (LOQ:0.1) gical Testing; Group: Pollution & Environ priological Parameters laccal Coliforms 33	th 7.9 5.5-9.0  otal Suspended Solids 17 20  blochemical Oxygen Permand (3 Days, 27°C) 9 10  chemical Oxygen Bernand Oxygen Permand Oxygen Permand Oxygen Permand Perm	1

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### TEST REPORT

	1 LUI NEI O		
Sample ID: E/10/22/5075	Report No.: E/10/22/5075N	Report Date	17/10/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	onal Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	13/10/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/10/2022
Order Reference	As Per Mail Dated 14.07.2022	Date - Completion of Analysis	17/10/2022

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)	6.6	10	mg/L	APHA, 73-1 Ed. 4500-MK2.B E.C.4-04.4- ISE 2007	

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### TEST DEDODT

Sample ID: E/11/22/5151	Report No.: E/11/22/5151	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis -	25/11/2022

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution 8	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.91	_	IS 3025 (Part II) 1983
2.	Total Suspended Solids	90	mg/L	IS 3025 (Part 17) ISB4
3.	Biochemical Oxygen Demand (3 Days, 27°C)	215	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	610	mg/L	APHA 23 <sup>rd</sup> Ed., 5220- B.5-IB:2017
5.	Ammonical Nitrogen (as NH3-N)	25.8	mg/L	APHA 23rd Ed 4500 NH3 8 G C 4 H4 4-H6:2017
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA, 23 <sup>rd</sup> Ed., 9221-E, 9-77: 2017







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## TEST DEDODT

	IEST KEP	/11.1	
Sample ID: E/11/22/5151	Report No.: E/11/22/5151N	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Unit	Method
Chamir	al Testing; Group: Polluti	on & Environment		
Circinic				

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### TEST DEPORT

	TEST REPO	KI	
Sample ID: E/11/22/5152	Report No.: E/11/22/5152	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	onal Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Che	emical Testing; Group: Pol	lution & Environ	ment		
Phy	sical & Chemical Paramet	ters			
1.	pH	7.62	5.5-9.0	- L	IS 3025 (Part II) 1983
2.	Total Suspended Solids	12	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	IS 3025 (Pert 44) 1993
4.	Chemical Oxygen Demand	13	50	mg/L	APHA 23rd Ed., 5220-B.S-IB:2017
5.	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BLQ (LOQ:0.1)	5	mg/L	APHA23rd Ed.4500-NH3 F, 4-H9-200
Bio	logical Testing; Group: Po	llution & Enviror	nment		
Bac	teriological Parameters		Ac. 100		
6.	Faecal Coliforms	24	Less than 100	MPN Index	APHA 23*4 Ed 9221-E, 9-77: 2017

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

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





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### TEST REPORT

	IEST KEFO	***	
Sample ID: E/11/22/5152	Report No.: E/11/22/5152N	Report Date	26/10/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method		
	Chemical Testing; Group: Pollution & Environment						
1.	Total Nitrogen (as N)	4.4	10	mg/L	APHA23rd Ed., 4500-NH3 F. 4-109:2007		

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### TEST REPORT

Sample ID: E/11/22/5149	Report No.: E/11/22/5149	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.7	_	IS 3025 (Part II) 1983
2.	Total Suspended Solids	94	mg/L	IS 3025 (Part 17) IS84
3.	Biochemical Oxygen Demand (3 Days, 27°C)	219	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	620	mg/L	APHA 23rd Ed. 5220-8,5-18:2077
5.	Ammonical Nitrogen (as NH3-N)	23.5	mg/L	APHA.23rd Ed.4500 NH3.8 & C. 4-114 4-116:2017
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 23rd Ed 922l E 9-77:2D17

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### TEST DEPORT

	TEST REPO		
Sample ID: E/10/22/5149	Report No.: E/10/22/5149N	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	onal Airport,	
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		

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### TEST REPORT

Sample ID: E/11/22/5150	Report No.: E/11/22/5150	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Ch	emical Testing; Group: P	ollution & Environn	nent		
Ph	sical & Chemical Param	eters			
1,	pH	7.72	5.5-9.0	_	IS 3025 (Part II) 1983
2.	Total Suspended Solids	14	20	mg/L	IS 3025 (Part 17) IBB4
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	10	50	mg/L	APHA.23rd Ed. 5220-8.5-18:2017
5.	Ammonical Nitrogen (as NH3-N)	BLQ (LOQ:0.1)	5	mg/L	APHA,23rd Ed 4500-NH3, F, 4-119:2017
Bio	logical Testing; Group: P	ollution & Environ	ment		
Bad	teriological Parameters				
6	Faecal Coliforms	26	Less than 100	MPN Index	ADHA 23 <sup>rd</sup> Ed. 9221 E 9,27, 2017

26 /100ml

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID E/11/22/5150 bears two Test Reports - E/11/22/5150 and E/11/22/5150N

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6. Faecal Coliforms





APHA, 23rd Ed., 922l E 9-77: 2017

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# TEST REPORT

	ILSI KEFO	***	The state of the s
Sample ID: E/11/22/5150	Report No.: E/11/22/5150N	Report Date	26/11/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	21/11/2022
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	21/11/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	25/11/2022

Sr.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Chemi	ical Testing; Group: Po	llution & Enviro	nment		
1. To	otal Nitrogen (as N)	4.1	10	mg/L	APHA.23rd Ed.4500-NH3. F, 4-119-2017

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### TEST REPORT

Sample ID: E/12/22/5088	Report No.: E/12/22/5088N	Report Date	15/12/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1" Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	10/12/2022
Sample Quanitity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Che	emical Testing; Group: Poll	ution & Enviro	nment		
Phy	sical & Chemical Paramete	rs			
1,	pH	7.82	5.5-9.0	_	IS 3025 (Part II) ISB3
2.	Total Suspended Solids	16	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	6	10	mg/L	IS 3025 (Pert 44) 1993
4.	Chemical Oxygen Demand	20	50	mg/L	APHA 23rd Ed.5220-B.5-IB:2017
5.	Ammonical Nitrogen (as NH3- N)	1.2	5	mg/L	APHA23rd Ed. ASDO-NH3 F. 4-119:2017
Bio	logical Testing; Group: Poll	ution & Enviro	nment		
Bac	teriological Parameters				
6.	Faecal Coliforms	32	Less than 100	MPN Index /100ml	APHA 23-4 Ed 5221-E, 9-77: 2017

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### TEST REPORT

Sample ID: E/12/22/5088	Report No.: E/12/22/5088N	Report Date	15/12/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatioi 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	10/12/2022
Sample Quantity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method	
	Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	4.8	10	mg/L	APHA23rd Ed., 4500-MH3 F, 4-H9:2017	

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### TEST REPORT

	IESI KEPU	K I	
Sample ID: E/12/22/5087	Report No.: E/12/22/5087N	Report Date	15/12/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	10/12/2022
Sample Quantity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Unit	Method
Chamle	al Testing; Group: Polluti	on & Environment	10.	
Chemic	ai resting, droup, Poliuti	on a Environment		

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TEST REPUT	<b>(1</b>	
Report No.: E/12/22/5087	Report Date	15/12/2022
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Laboratory	Sample Description / Type	Untreated Sewage Effluent
Terminal 2 STP Inlet	Date - Receipt of Sample	10/12/2022
2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022
	Report No.: E/12/22/5087  Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra  Laboratory  Terminal 2 STP Inlet 2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle  Work Order No. 5700316635	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra  Laboratory  Sample Description / Type  Terminal 2 STP Inlet  Date - Receipt of Sample  2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle  Work Order No. 5700316635  Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution	& Environment		
Phy	sical & Chemical Parameters		- 70. 0	v
1.	pH	6.93	_	JS 3025 (Part 10 IS83
2.	Total Suspended Solids	99	mg/L	IS 3025 (Part I7) 1984
3.	Biochemical OxygenDemand (3 Days. 27°C)	239	mg/L	IS 3025 (Pert 44) 1953
4.	Chemical Oxygen Demand	660	mg/L	APHA 23rd Ed.5220-8.5-18:2017
5.	Ammonical Nitrogen (as NH <sub>2</sub> - N)	25.8	mg/L	APHA23rd Ed.4500-NH3 B G C 4 IIA 4-II6:200
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index/100ml	APHA23rd Ed. 9221-E. 9-77-2017

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### TEST REPORT

	ILUI KEI	F. 8 S. R.	
Sample ID: E/12/22/5086	Report No.: E/12/22/5086N	Report Date	15/12/2022
Nanoc and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	10/12/2022
Sample Quantity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method	
	Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	4.01	10	mg/L	APHA23rd Ed., 4500-MI3 F, 4-89:2017	

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#### TEST REPORT

	TEST REPOR		
Sample ID: E/12/22/5086	Report No.: E/12/22/5086	Report Date	15/12/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatioi 1° Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	10/12/2022
Sample Quantity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Limit as Per MPCB Consent	Unit	Method
Che	mical Testing; Group: Poll	ution & Enviro	iment		
Phy	sical & Chemical Paramete	ers			
1,	pH	7.7	5.5-9.0		IS 3025 (Part II) ISB3
2.	Total Suspended Solids	14	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	13	50	mg/L	APHA 23rd Ed.522D-8,5-48:2017
5.	Ammonical Nitrogen (as NHE N)	1.1	5	mg/L	AFHA23rd Ed. 4500-NH3 F. 4-119:2017
Bio	logical Testing; Group: Pol	ution & Enviro	nment		
Bac	teriological Parameters				
6.	Faecal Coliforms	27	Less than 100	MPN Index /100ml	APHA 23-4 Ed 9221-E, 9-77: 2017

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## TEST REPORT

	TEST REPO	KI .	
Sample ID: E/12/22/5085	Report No.: E/12/22/5085N	Report Date	15/12/2022
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 <sup>e</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	10/12/2022
Sample Quantity/Packing	2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
1. Tot	al Nitrogen (as N)	28.2	mg/L	APHA23rd Ed., 4500-NH3 F. 4-89-2007

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### TECT DEPORT

Report No.: E/12/22/5085	Report Date	15/12/2022
	Confluence man	15/12/2022
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatior 1° Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra	nal Airport,	
Laboratory	Sample Description / Type	Untreated Sewage Effluent
Terminal 1 STP Inlet	Date - Receipt of Sample	10/12/2022
2 L × 1 no. plastic can 250 ml × 1 no. sterile glass bottle	Date - Start of Analysis	10/12/2022
Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	14/12/2022
1 2 2	Chhatrapati Shivaji Maharaj Internatior Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra aboratory  Ferminal 1 STP Inlet L × 1 no. plastic can 150 ml × 1 no. sterile glass bottle  Vork Order No. 5700316635	Chhatrapati Shivaji Maharaj International Airport, Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra  aboratory  Sample Description / Type  Ferminal 1 STP Inlet  L × 1 no. plastic can 150 ml × 1 no. sterile glass bottle  Vork Order No. 5700316635  Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.84	2	IS 3025 (Pert II) 19R3
2.	Total Suspended Solids	96	mg/L	IS 3025 (Part IT) 1984
3.	Biochemical OxygenDemand (3 Days. 27°C)	230	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	650	mg/L	APHA 23rd Ed.5220-8,5-18:2007
5.	Ammonical Nitrogen (as NH3- N)	26.9	mg/L	APHA23rd Ed. 4500-NN3 B B C 4 N4 4-NE-200
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			4
6.	Faecal Coliforms	170	MPN Index/100ml	APHA23rd Ed. 9221-E. 9-77-2017

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	TEST REPORT		
Sample ID: E/01/23/5118	Report No.: E/01/23/5118	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rd</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution 8	k Environment		
Phy	rsical & Chemical Parameters			
1.	pH	6.6		IS 3025 (Pert II) ISB3
2.	Total Suspended Solids	90	mg/L	IS 3925 (Part 17) ISBA
3.	Biochemical Oxygen Demand (3 Days, 27°C)	207	mg/L	IS 3825 (Part 44) 1993
4,	Chemical Oxygen Demand	620	mg/L	APHA 23rd Ed. S220-8, 5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	28	mg/L	APILA 23rd Ed 4500 MH3 B G C 4 84-4-16-201
Biol	logical Testing; Group: Pollution	& Environment		7.
Bac	teriological Parameters			
6.	Faecal Coliforms	210	MPN Index /100ml	APNA 73* Ed 927 E. 9-77-2077

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### TEST REPORT

Report No.: E/01/23/5118N	Report Date	30/01/2023
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Virport,	
Laboratory	Sample Description / Type	Untreated Sewage Effluent
Terminal 1 STP Inlet	Date -Sampling	24/01/2023
2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
IS 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rd</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Air Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. Laboratory  Terminal 1 STP Inlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed.2017, 1060 B,1-40  Work Order No. 5700316635	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Laboratory  Sample Description / Type  Terminal 1 STP Inlet  Date - Sampling  2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle  IS 3025 (Part 1):1987, Amds.1 & APHA 23st Ed.2017, 1060 B,1-40  Work Order No. 5700316635  Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Chemica	al Testing; Group: Polluti	on & Environment		

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# TEST REPORT

	TEST REPORT	MANUFACTURE VICTOR	20104 12022
Sample ID: E/01/23/5119	Report No.: E/01/23/5119	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Fioor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Che	emical Testing; Group: Poll	ution & Enviro	nment		\\
Phy	sical & Chemical Paramete	ers			
1.	pH	7.5	5.5-9.0	-	15 3025 (Part 4) 1983
2,	Total Suspended Solids	15	20	.mg/L	15 3825 (Part 07) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	3	10	mg/L	(\$ 3025 (Part 44) (953
4.	Chemical Oxygen Demand	10	50	mg/L	APRA 23trd Ed. 5220-8, 5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	2.24	5	mg/L	APHAZSINI Ed. 4500 MKS. F. 4-89-200
Bio	logical Testing; Group: Pol	lution & Enviro	onment		
Bac	teriological Parameters				A1
6.	Faecal Coliforms	22	Less than 100	MPN Index /100ml	APIIA 237 Ed 9221-E, 9-77-2017

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Note: Sample ID E/01/23/5119 bears two Test Reports - E/01/23/5119 and E/01/23/5119N

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### TECT DEDODT

	IEST KEPUKT		
Sample ID: E/01/23/5119	Report No.: E/01/23/5119N	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A  1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Nirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	1S 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rd</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Sr. No.	Parameter	Result	MPCB Consent	Unit	Method
Chemica	Testing; Group: Pol	llution & Enviro	nment	17	
1. Total	Nitrogen (as N)	5.2	10	mg/L	APHA23rd Ed. 4500 NH3, F. 4-109-2017

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# TEST REPORT

	TEST REPORT		
Sample ID: E/01/23/5116	Report No.: E/01/23/5116	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	virport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>et</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

er & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution I	& Environment	•	
Phy	sical & Chemical Parameters		- XX	
1.	рН	6.8		IS 3025 (Part 1) 1983
2.	Total Suspended Solids	92	mg/L .	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	220	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	640	mg/L	APHA 23rd Ed. 5220-8, 5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	26.9	mg/L	APRIA 23rd Ed 4500 MH3 8 G C 4 IA-4-16-201
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	140	MPN Index /100ml	APHA 23* Ed 9221-E, 9-77-2017

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### TEST REPORT

Sample ID: E/01/23/5116	Report No.: E/01/23/5116N	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rt</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
1. Tot	al Nitrogen (as N)	35	mg/L	APHA23rd Ed.4500 NH3, F, 4-19-2017

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# TEST REPORT

	IESI KEPUKI		
Sample ID: E/01/23/5117	Report No.: E/01/23/5117	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	sirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	1S 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rd</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Che	emical Testing; Group: Poll	ution & Enviro	nment		
Phy	sical & Chemical Paramete	ers			
1.	pH	7	5.5-9.0	_	45 3025 (Pert II) 1983
2.	Total Suspended Solids	12	20	mg/L	. ES 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	8	10	mg/L	IS 3075 (Part 44) (993
4,	Chemical Oxygen Demand	26	50	mg/L	APNA Z3rd Ed. SZZE-B. S-98-2017
5.	Ammonical Nitrogen (as NH3-N)	1.12	5	mg/L	APHAZZIrd Ed. 4500 MK3, F, 4-89-200
Bio	logical Testing; Group: Pol	lution & Enviro	onment		
Bac	teriological Parameters				
6.	Faecal Coliforms	33	Less than 100	MPN Index /100ml	APHA 237 Ed 9221-E, 9-77-2017





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### TEST REPORT

	ILSI KLFOKI		
Sample ID: E/01/23/5117	Report No.: E/01/23/5117N	Report Date	30/01/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	sirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	24/01/2023
Sample Quantity/Packing	2 L x 1 no, plastic can 250 ml x 1 no, sterile glass bottle	Date - Receipt of Sample	25/01/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23 <sup>rd</sup> Ed.2017, 1060 B,1-40	Date - Start of Analysis	25/01/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	30/01/2023

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Cher	mical Testing; Group: Po	llution & Enviro	nment		
1.	Total Nitrogen (as N)	6.94	10	mg/L	APHA23rd Ed. 4500 MH2, F. 4-119:2017

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# TEST DEDODT

	TEST REPORT		
Sample ID: E/02/23/5066	Report No.: E/02/23/5066	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution	& Environment	***	V
Phy	sical & Chemical Parameters			
1.	pH	6.7		IS 3025 (Part II) 1983
2.	Total Suspended Solids	84	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	191	mg/L	IS 3025 (Part 44) 1953
4.	Chemical Oxygen Demand	590	mg/L	APHA 23rd Ed. 5220-8, 5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	22.4	mg/L	APHA 23rd Ed 4500 NH3 8 G C 4 1/4-4-1/G:2017
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 23" Ed 9221-E, 9-77:2017

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### TEST REPORT

	TEST KEFOKT		
Sample ID: E/02/23/5066	Report No.: E/02/23/5066N	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1* Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Nirport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
	al Nitrogen (as N)	22.1	mg/L	APHA, 23rd Ed. 4500 NH3, F. 4-109-2017

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### TECT DEDODT

Sample ID: E/02/23/5067	Report No.: E/02/23/5067	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1° Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	uirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

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
Che	mical Testing; Group: Poll	ution & Enviro	nment		
Phy	sical & Chemical Paramete	ers			
1.	рН	7.5	5.5-9.0	_	IS 3025 (Part II) 1983
2.	Total Suspended Solids	16	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	20	50	mg/L	APHA 23rd Ed. S220-R, S-18-2017
5.	Ammonical Nitrogen (as NH3-N)	1.12	5	mg/L	APHA, 23rd Ed.4500 NH3, F, 4-119-2017
Bio	logical Testing; Group: Pol	lution & Enviro	nment		
Bac	teriological Parameters				
6.	Faecal Coliforms	27	Less than 100	MPN Index /100ml	APHA 23° Ed 9221-E, 9-77:2017

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### TEST REPORT

Sample ID: E/02/23/5067	Report No.: E/02/23/5067N	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Nirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Limit as per Parameter Result MPCB Consent Unit Method No. Chemical Testing; Group: Pollution & Environment 1. Total Nitrogen (as N) 10 mg/L APHA, 23rd Ed.,4500 MH3, F, 4-NS:2017 Note: Sample ID E/02/23/5067 bears two Test Reports - E/02/23/5067 and E/02/23/5067N

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# TEST DEPORT

Sample ID: E/02/23/5064	Report No.: E/02/23/5064	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	sirport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution I	k Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.78		IS 3025 (Part 11) IS83
2.	Total Suspended Solids	98	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	234	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	680	mg/L	APHA 23rd Ed. 5229-8, 5-18:2017
5.	Ammonical Nitrogen (as NH3-N)	29.1	mg/L	APHA 23rd Ed 4500 NH3 B B C 4 H4-4-H6:201
Biol	ogical Testing; Group: Pollution	& Environment		
Bact	teriological Parameters			
6.	Faecal Coliforms	220	MPN Index /100ml	APHA 28* Ed 9221-E, 9-77-2017

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End of Report-



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### TEST DEDODT

	ILSI KLPOKI		
Sample 1D: E/02/23/5064	Report No.: E/02/23/5064N	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Sr. No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Polluti	on & Environment		

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#### TECT DEDODT

Sample ID: E/02/23/5065	Report No.: E/02/23/5065	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	virport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

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Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Che	mical Testing; Group: I	Pollution & Envi	ronment		
Phy	rsical & Chemical Paran	neters			
1.	pH	7.6	5.5-9.0	_	IS 3025 (Part II) 1983
2.	Total Suspended Solids	15	20	mg/L	IS 3025 (Part I7) ISBA
3.	Biochemical Oxygen Demand (3 Days, 27°C)	5	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	24	50	mg/L	APHA 23rd Ed. 5220-8, 5-18:201
	Ammonical Nitrogen (as NH3-N)	2.2	5	mg/L	APHA, 23rd Ed.,4500 MH3, F, 4- 119:2017
Bio	logical Testing; Group:	Pollution & Env	ironment		
Bac	teriological Parameter				
6.	Faecal Coliforms	40	Less than 100	MPN Index /100ml	APHA 23" Ed 9221-E, 9-77-2007

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Sample ID: E/02/23/5065	Report No.: E/02/23/5065N	Report Date	20/02/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminai 1B, Santacruz (E) Mumbai-400099, Maharashtra.	virport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	15/02/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	16/02/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	16/02/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	20/02/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Cher	nical Testing; Group: Po	llution & Enviro	nment		
1.	Total Nitrogen (as N)	5.2	10	mg/L	APHA, 23rd Ed.4500 NH3, F, 4-49-2017
Note	: Sample ID E/02/23/506	bears two Test R	Reports - E/02/23/5065	and E/02/23	/5065N

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### TEST REPORT

	ILSI KLIOKI		
Sample ID: E/03/23/5091	Report No.: E/03/23/5091N	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	15 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
	tal Nitrogen (as N)	34	mg/L	APHA23rd Ed. 4500 NH3, F. 4-19-207

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# TEST REPORT

	TEST KEPOKT		
Sample ID: E/03/23/5089	Report No.: E/03/23/5089	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution I	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.8	_	1\$ 3025 (Fert II) 1983
2.	Total Suspended Solids	88	mg/L	15 3025 (Part II) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	199	mg/L	IS 3925 (Part 44) 1993
4.	Chemical Oxygen Demand	580	mg/L	APHA 23rd Ed. 52XI-B. 5-9E-2017
5.	Ammonical Nitrogen (as NH3-N)	24.6	mg/L	APHA 23rd Ed 4500 NH3 B E C 4 H4-4-HE 201
Bio	logical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	170	MPN Index /100ml	APHA 23" Ed 9231-E. 9-77-2017
-	Faecal Coliforms : Sample ID E/03/23/5089 bears to			

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### TEST REPORT

Sample ID: E/03/23/5089	Report No.: E/03/23/5089N	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
	tal Nitrogen (as N)	27.5	mg/L	APHA 73rd Ed. 4500 NHZ, F. 4-119-2017

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# TEST REPORT

	TEST KEPOKT		
Sample ID: E/03/23/5090	Report No.: E/03/23/5090	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	úrport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

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
Che	mical Testing; Group: Poll	ution & Enviro	nment		
Phy	sical & Chemical Paramete	ers			
1.	рн	7.68	5,5-9.0	_	IS 3025 (Part II) ISB3
2.	Total Suspended Solids	12	20	mg/L	IS 2025 (Part I7) ISB4
3.	Biochemical Oxygen Demand (3 Days, 27°C)	5	10	mg/L	IS 3975 (Part 44) 1953
4,	Chemical Oxygen Demand	22	50	mg/L	APHA 23rd Ed. 5220-8, 5-98:2017
5.	Ammonicai Nitrogen (as NH3-N)	1.12	5	mg/L	APHA, 23rd Ed. 4500 NK3, F. 4 19:201
Bio	logical Testing; Group: Pol	lution & Enviro	onment		
Bac	teriological Parameters				
6.	Faecal Coliforms	33	Less than 100	MPN Index /100ml	APHA 23" Ed 9225-E, 9-77-2017





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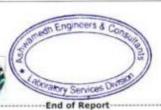
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### TEST REPORT

Sample ID: E/03/23/5090	Report No.: E/03/23/5090N	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

Limit as per Method Parameter Result Unit **MPCB** Consent No. Chemical Testing; Group: Pollution & Environment APHA, 23rd Ed. 4580 WK3, F. 4-19-2017 1. Total Nitrogen (as N) 4.2 Note: Sample ID E/03/23/5090 bears two Test Reports - E/03/23/5090 and E/03/23/5090N

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### TECT DEDODT

	TEST REPORT		
Sample ID: E/03/23/5092	Report No.: E/03/23/5092	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	virport.	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location Terminal 2 STP RO Outlet		Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Dute - Completion of Analysis	28/03/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Che	emical Testing; Group: I	Pollution & Env	ironment		
Phy	sical & Chemical Paran	neters			/
1.	pH	7.8	5.5-9.0	-	IS 3025 (Part II) ISS3
2.	Total Suspended Solids	13	20	mg/L	IS 3025 (Part IT) ISSA
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	IS 3025 (Part 44) 8993
4.	Chemical Oxygen Demand	15	50	mg/L	APNA 23rd Ed: 5220-8, 5-18-207
5.	Ammonical Nitrogen (as NH3-N)	3.4	5	mg/L	APHA, 23rd Ed. 4500 WK3, F. 4-89 200
Bio	logical Testing; Group:	Pollution & Env	vironment		

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6. Faecal Coliforms



Less than 100

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MPN Index /100ml | APHA 23" [6 923-E 5-77.297

The result listed refers only to the tested sample(s) and applicable parameter(s).

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Note: Sample 1D E/03/23/5092 bears two Test Reports - E/03/23/5092 and E/03/23/5092N

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# TEST REPORT

	ILDI KLI OKI		
Sample ID: E/03/23/5092	Report No.: E/03/23/5092N	Report Date	28/03/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	kirport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	23/03/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	24/03/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		24/03/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	28/03/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Che	mical Testing; Group: Po	llution & Enviro	nment		
1.	Total Nitrogen (as N)	7.1	10	mg/L	APHA: 25-6 Ed. 4500 NH3, F. 4-10:2017
No	te: Sample ID E/03/23/509	2 bears two Test F	Reports - E/03/23/5092	and E/03/23	/5092N

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



Page no.1 of 1

# Annexure -5 DG Enclosures and stack

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







# Annexure -06 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	By and Alle	
	Vinayak Sohani Documentation Lead	Nadre	
Recommended by:	Jayant Dasgupta AVP -Airside Management	J. 300	
	Prasad Nair MR-IMS	(hr	Milos
Approved by	Prabhat Mahapatra EVP - Operations	Almahar	13/1/21





SOP: FUEL/ FLUID SPILLAGE

Issue No : 04 Revision No : 04 Doc No: MIAL/AO-ASM/SOP/03/04 Issue Date : 01/04/2011 Revision Date : 11/01/2020

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1	PURPOSE	03	
2	SCOPE	03	
3	OBJECTIVE	03	
4	RESPONSIBILITY	03	YES
5	DEFINITIONS & ABBREVIATIONS	03	YES
6	PROCEDURE	04	YES
7	FORMATS USED	07	
8	RECORDS GENERATED	07	
9	REFERENCES	07	
10	REVISION HISTORY	08	YES





 SOP: FUEL/ FLUID SPILLAGE
 Doc No: MIAL/AO-ASM/SOP/03/04

 Issue No : 04
 Issue Date : 01/04/2011

 Revision No : 04
 Revision Date : 11/01/2020

#### 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





 SOP: FUEL/ FLUID SPILLAGE
 Doc No: MIAL/AO-ASM/SOP/03/04

 Issue No : 04
 Issue Date : 01/04/2011

 Revision No : 04
 Revision Date : 11/01/2020

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.







SOP: FUEL/ FLUID SPILLAGE Doc No: MIAL/AO-ASM/SOP/03/04

Issue No : 04 Issue Date : 01/04/2011 Revision No : 04 Revision Date : 11/01/2020

# 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.





Page 5 of 8

 SOP: FUEL/ FLUID SPILLAGE
 Doc No: MIAL/AO-ASM/SOP/03/04

 Issue No : 04
 Issue Date : 01/04/2011

 Revision No : 04
 Revision Date : 11/01/2020

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.





SOP: FUEL/ FLUID SPILLAGE

Doc No: MIAL/AO-ASM/SOP/03/04 Issue No : 04 Issue Date : 01/04/2011 Revision No : 04 Revision Date : 11/01/2020

# 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





SOP: FUEL/ FLUID SPILLAGE

Issue No : 04 Revision No : 04 Doc No: MIAL/AO-ASM/SOP/03/04 Issue Date : 01/04/2011 Revision Date : 11/01/2020

# 10.0 REVISION HISTORY

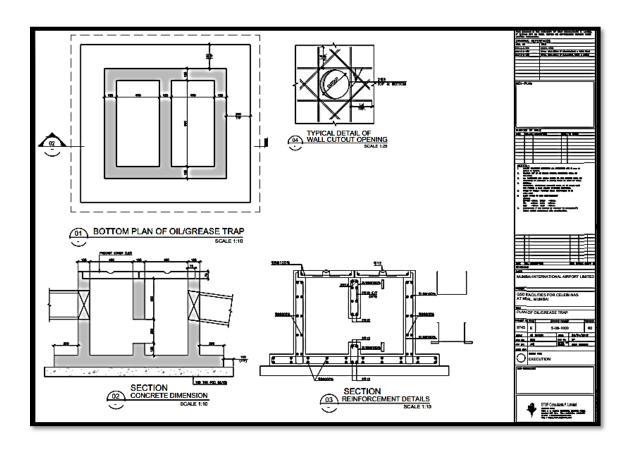
Date	Rev. No.	Page No.	Revision Description
6/11/2012	01	6	Service charge for clearing spillage is included.
01/07/2014	02	3	New abbreviations are added, Responsibility changed.
01/07/2014	02	4	Definition of major fuel/oil/fluid spillage is revised
01/07/2014	02	6	Penalty charge is included under section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





Annexure -07 Oil Interceptors.

# Annexure - 7 Drawing of the oil interceptors provided for containment of spills.



# Annexure -08 Green Existing Building (GEB) Rating Certificate by CII.





# Indian Green Building Council (IGBC)

hereby certifies that

# **Mumbai International Airport Limited (T-2)**

(IGBC Registration No: GEB 15 0662)

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

IGBC Green Existing Buildings Rating System

# Platinum

December 2021

(This certification is valid for next 3 years)

Gurmit Singh Arora Chair, IGBC Green EB O&M V Suresh Chairman, IGBC K S Venkatagiri Executive Director, CII-Godrej GBC Annexure -09 Last EC Submission Letter.

# Half Yearly Environment Clearance Compliance report for CSMIA -reg





Thu 12/1/2022 10:11 PM

:

→ Forward

(K) Reply All

← Reply

0

Dear Sir/Madam,

Please find enclosed herewith the compliance report of EC conditions for the period of April to Sept of FY 22-23.

We could not upload the report on Parivesh portal maybe due to congestion it is showing technical error therefore we are submitting this through email.

Thanking you.

Yours faithfully,

Chhatrapati Shivaji Maharaj International Airport Head - Environment & Sustainability, Mumbai International Airport Limited Jayesh Gehlot,

Ist Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India Mobile: +91 9001894544, Ph.+22-668-50778

www.csmia.adaniairports.com



Ref: MIAL/ENV/22/23

114 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 2" June 2017 8 3" 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 Mumbal 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 Strees Maharaj International Airport 1st Price: Terminal 18, Santachur (6), Mumbai 400 099, Maharashora, India Che U45200MH2056PLC160164

Tel +91 22 6685 0900 / 6685 0901 como adeniar pertucorri Annexure -10 Environmental Statement (Form V) 2022-23.



# 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

Consent Issue Date

2022-05-13

PART A

Company Information

Application UAN number Company Name

Mumbai International Airport

Limited

0000046050

Chhatrapati Shivaji Maharaj International Airport (CSMIA),

Blot no The backets Village 1st floor, Terminal - 1 Mumbai Santacruz (East),

Scale Capital Investment (In City

lakhs)

11132.62 Mumbai Large

Pincode Person Name Designation

400099 Jayesh Kumar Gehlot Head Environment & Sustainability,

Telephone Number Fax Number

02266850778 02266850778 jayeshkumar.gehlot@adani.com

Benjan Industry Category Industry Type

SRO-Mumbai III Red R23 Airports and Commercial Air Strips

Last Environmental statement submitted

online

Consent Number

RED/L.S.I NO: Format 1.0/CAC/UAN 1000

NO/0000111260/CR/2205000810/ RED/L.S.I(R1)

NO:FORMAT1.0/CAC/UAN NO MPCB-

CONSENT-0000114666/CR-2202000364/RED/L 5.I/R31INO-FORMAT1.0/CAC/UAN NO-0000082458/CR-200700167

Consent Valid Upto Fetablishment Year Date of last environment statement submitted

2024-05-31 Sep 29 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary

(STC Code)

Product Information

Product Name Consent Quantity **Actual Quantity** MOM NA Ö Nos./Y

By-product Information

Consent Quantity **Actual Quantity** By Product Name MOM NA 0 Nos/Y

# Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day Water Consumption for Process	Consent Quantity in m3/day 0.00	Actual Quantity in m3/day 0.00
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	WOW
NIL	0	0	CMD

47	Fuel	Cor	1844	me	tion

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 Poliutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	Swariation	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			
	Quantity	Concentration	%variation	Standard		
SO2 (Kg/day)	0.4	0	0	295.2	Pollutant di within stand limit	
Total Particulate matter (mg/Nm3)	0	17.6	0	150	Pollutant di within stand limit	
Part-D						
HAZARDOUS WASTE	S					
1) From Process Hazardous Waste Ty	-		Total During Previous	Total Durin	or Current	иом
		,	financial year	Financial y		
5.1 Used or spent oil		C	)	11.760		KL/A
5.2 Wastes or residues	containing oil	1	2.42	0		MT/A.
83.1 Empty barrels /co chemicals /wastes	ntainers /liners cor	ntaminated with hazardous	3.41	48		Nos./
23.1 Wastes or residue	s (not made with )	regetable or animal materials) 4	14.84	82.402		MT/A
Part-E						
SOLID WASTES 1) From Process	to Tomo Total D	uring Previous Financial year	Total During Cu	ment filmmed		WOR
Waste Plastics	117	aring Previous Financial year	180	rent rinanci	a year	MT/A
Waste Paper	531		188			MTG
Waste glass bottles	115		120			MT/A
Waste Plastics bottles	117		0			MT/A
Waste wood	113		150			MTA
Broken tins	108		168			MTA
Other Misc. scrap	114		147			MTO
Waste cotton	88		106			MTG
The second secon	1840.7		1397			MTA
Wet waste	4070.3		517			
Wet waste Organic / food waste	207.3		31/			MT/A

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

# Part-F

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

# 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	MON	Concentration of Hazardous Waste
5.1 Used or spent oil	11760	Ltr/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
5.2 Wastes or residues containing oil	0	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	48	Nos./Y	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
23.1 Wastes or residues (not made with vegetable or animal materials)	82.402	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.

2) Solid Waste Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Waste plastic	180	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste paper	188	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste glass bottles	120	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste plastic bottles	0	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste wood	150	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste broken tins	168	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Other Misc. Scrap	147	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Waste cotton	106	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Wet Waste	1397	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping
Organic / food waste	517.2	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after the waste is disposed to MCGM/MPCB dumping

# Part-G

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

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