Environmental Clearance Six Monthly Compliance Report

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

of

Chhatrapati Shivaji Maharaj International Airport (CSMIA)

For Period of October- 2023 to March- 2024

SIX MONTHLY COMPLIANCE REPORT (01.10.2023 to 31.03.2024) Present Status of Compliance to Conditions stipulated in EC F.No. 10-5/2007-IA-III dated 2nd June 2017

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

S.N.	Conditions	Compliance Status		
(A) Spec	cific Condition			
Ι.	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. Refer Annexure – 01- Aerodrome Licence .		
- 111.	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 complied for remaining proposed developments in future. Refer Annexure- O2- 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 complied for remaining proposed developments in future.		
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		

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

S.N.	Conditions	Compliance Status
		transportation. The same will be complied for remaining proposed developments in future. Refer Annexure- O3 Construction material truck covered by impervious sheets.
VI.	The excavation working area shall be sprayed with water after operation so as to maintain the entire surface wet.	Agreed to complied. At the time of excavation, measures to reduce dust pollution are being taken. The same will be complied for remaining proposed developments in future.
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.	Agreed to comply. Safety measures are being taken and soil sample shall be collected and analysed for fertility to determine further usage as per conditions.
VIII.	A detailed drainage plan for rainwater shall be drawn up and implemented.	Complied. Storm water drainage plan for MIAL has been implemented.
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.	Not applicable.
Х.	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.	Complied. Noise level monitoring in and around airport premises is conducted regularly and are observed within prescribed limits. Also, vehicles and equipment are being maintained as per manufacture recommendations. Refer Annexure -O4 Environmental monitoring reports.
XI.	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7am to 6pm	Agreed to Complied.
XII.	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete, bricks, timber, plastic, glass, metals, bitumen etc.	Complied, Waste has been segregated, reused, and disposed as per the Solid Waste Management the Construction and Demolition Waste Rules.

S.N.	Conditions	Compliance Status
	shall be reused /recycled or disposed-off as per the Solid Waste Management Rule, 2016 and the Construction and Demolition Waste Rules 2016.	
XIII.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulfur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board (SPCB).	Complied. DG sets are being used for emergency backup purpose only. Enclosures, stack, and low sulphur diesel is being used. Also, DG stack has been provided near runway as per aviation safety. CTE has been obtained vide dated 21/09/2022 and accordingly stack height is provided. Refer Annexure -O5 - DG Enclosures and stack. Annexure -O5A – Consent to establish dated 21/09/2022.
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.	Complied. Contingency plan for spills prevention is in place & implemented. Refer Annexure -O6 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. Contingency plan for spills prevention is in place & implemented. Oil interceptors are commissioned to contain spills. Refer Annexure- 07 Oil interceptors drawing.
XVI.	The runoff from paved structures like runways, taxiways can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Complied. Oil interceptors are commissioned to contain spills and sedimentation basins through discharged rainwater harvesting structure.
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. Storm water drainage plan for MIAL has been implemented.

S.N.	Conditions	Compliance Status
XVIII.	Rainwater harvesting for roof run- off and surface runoff, as plan submitted should be implemented. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter, Oil & grease.	Complied. Rainwater recharge pits have been constructed the total 295 Recharge pits at airside and near terminal buildings to capture roof run offs and use for recharging ground water table. Rainwater pits are provided with coarse sand and stone aggregate filtration.
XIX.	Total freshwater requirement from MCGM shall not exceed from 8 MLD	Complied. Average 3.5 MLD water sourced from MCGM during the period of October-23 to March-24.
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.	Complied. Average 2.66 MLD domestic Wastewater was generated during the period October-23 to March-24. The treated water is fully recycled in flushing, HVAC and gardening.
XXI.	Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. Refer Annexure -05 Photos 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. AAQ monitoring is being carried out at 4 location and ANQ monitoring is being carried out 10 locations by MoEF/NABL accredited lab. CAQMS and CNQMS system has also been installed at the site. All the results are observed to be within the standards. Refer Annexure -O4 Environmental monitoring reports.
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),	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 handlers do the segregation and further

S.N.	Conditions	Compliance Status		
	wood, waste oil and solvents (from maintenance and engineering operation), kitchen wastes and vegetable oils (from caterers) shall be carried out.	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.	Complied. Surface along with Multi-Level Car Parking buildings (MLCPs) have been constructed for vehicle parking with adequate capacity at both the passenger terminals and traffic management plan has been implemented.		
XXV.	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	 Complied. Energy efficient lights has been considered during the design as well as at the time of replacement of existing lighting. Terminal-2 has been awarded with Platinum Rating Facility in existing 		
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, Last compliance report has been submitted copy attached. Annexure- O9 Letter of previous compliance report submission.		
XXVII.	The concerns of the public hearing panel shall be suitably addressed to, and the recommendations adopted as part of the Environmental Management Plan and in the plan for CSR as applicable.	Complied. EMP has been implemented, Also, various CSR initiatives in the field of health, education, women empowerment, environment, etc. are being implemented. Annexure – 11 Environment Management Plan		
XXVIII.	A water security plan, to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the CSR activity.	Complied. MIAL has 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 as a part of CSR activity.		

S.N.	Conditions	Compliance Status						
	(B) GENERAL CONDITIONS							
I.	The project authorities must strictly adhere to the stipulations made by the SPCB, State Government and any other statutory authority.	Complied. MPCB has granted Consent to operate CTO-Format-1.0-CAC-UAN No.000111260-CR-2205000810. It is valid till dated 31.05.2024, the renewable application has submitted through portal with application no. 100009132000 dated 01-04-2024. 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.						
11.	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.	Agreed and complied						
111.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (daytime) and 70dBA (night time)	Complied. Regular ambient noise monitoring is carried out in and around airport area at around 10 locations by MoEF/NABL accredited lab. CNQMS system has also been installed at the site. All the results are observed to be within the standards. Refer Annexure -O4 Environmental monitoring reports.						

S.N.	Conditions	Compliance Status		
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 ambient air, ambient noise levels are continuously monitored through permanently installed stations. Overall Environment Monitoring is being carried out by MoEF& NABL accredited laboratory.		
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.	Complied. Separate budget for environmental protection measures and initiatives is allocated every year. Opex: Approx. INR 10.08 Cr was spent in FY 2023–24 for Air Quality Management, Water & Wastewater management, Energy Management, Green Area Management, Waste Management etc. Also had capex investment to implement the green initiative to reduce carbon emission in FY 2023–24, approximately INR 12.94 Cr was spent.		
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.	Complied. Compliance data is being submitted along with six monthly compliance report. Refer Annexure- O9 Letter of previous compliance report submission .		
VII.	A copy of clearance letter shall be sent by the proponent to be concerned Panchayat / Zila parishad / Municipal corporation, urban local body and the local NGO, if any from whom any suggestion / representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company the proponent.	Complied. Copy of grievance letter is also available on the company is website - <u>https://csmia.adaniairports.com/all-</u> <u>reports.aspx</u> The copy of clearance letter was submitted to MMRDA & Collector vide letter no MIAL/DIR(UP)/158(B)/2017/173 dated 28 th June 2017 and		

S.N.	Conditions	Compliance Status
		MIAL/DIR(UP)/158(B)/2s017/175 dated 28 th June 2017 respectively.
VIII.	A project proponent shall also submit six monthly monitoring reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hardcopies as well as by e-mail) to the Regional Officer of MoEF&CC, the respective Zonal office of CPCB and the SPCB. The regional officer of this Ministry /CPCB/SPCB shall monitor the stipulated conditions.	Complied. Compliance data is being submitted along with six monthly compliance report. Refer Annexure- 09 Letter of previous compliance report submission .
IX.	The environmental statement for each financial year ending 31 st March in form –V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional office of MoEF&CC by e-mail.	Complied. Environment statement is submitted on MPCB portal, Copies are attached. Same is also displayed on company website https://csmia.adaniairports.com/all- reports.aspx Refer Annexure – 10 Environment statement Form- V.
Х.	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 <u>http://www.envfor.nic.in</u> . 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	Complied. Communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 th December 2017.

S.N.	Conditions	Compliance Status
	forwarded to the Regional Office of this Ministry.	
XI.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing of land development work.	Agreed to Complied.
XII.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to Comply
XIII.	The ministry reserves the right to stipulate additional conditions, if necessary. The company in time bound manner shall implement these conditions	Agreed to Comply
XIV.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in writ petition (Civil) No 460 of 2004 as may be applicable to this subject.	Agreed to Comply

Annexure -O1 Aerodrome License.



GOVERNMENT OF INDIA OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION DGCA COMPLEX, OPP. SAFDARJUNG AIRPORT, NEW DELHI-110003

Application Id 2024/ASD/Renewal/000003187 License No. AL/PUBLIC/005

AERODROME LICENSE - PUBLIC USE

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

MUMBAI INTERNATIONAL AIRPORT LIMITED

for

CHHATRAPATI SHIVAJI MAHARAJ INTERNATIONAL AJRPORT MUMBAI

Latitude : 19"05'29.6"N , Longitude : 072"51'57.5"E

The ARFF category of the aerodrome and other details are 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 nurway and associated facilities including granted exemptions 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 Acrodrome License is not transferable.



Date of Issue: 30-04-2008 New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

License No. AL/PUBLIC/005 SCHEDULE-II

VALIDITY OF THE LICENSE

CHILATRAPATI SHIVAJI MAHARAJ INTERNATIONAL AIRPORT MUMBAI

FROM	TO	SIGNED AUTHORITY		
03-05-2006	02-05-2008	K GOHAIN		
03-05-2008	02-05-2010	K GOHAIN		
03-05-2010	02-05-2012	DR. NASIM ZAIDI		
03-05-2012	02-05-2014	E.K.BHARAT BHUSHAN		
03-05-2014	02-05-2016	DR. PRABHAT KUMA		
03-05-2015	02-05-2018	MS. M SATHIYAVATHY		
03-05-2018	02-05-2020	B S BHULLAR		
03-05-2020	02-05-2022	ARUN KUMAR		
03-05-2022	02-05-2024	ARUN KUMAR		
03-05-2024	02-05-2029	VIKRAM DEV DUTT		

Signature valid Signed by Kram Dev Du Annexure -O2 Barricading practices.







Annexure- O3 Construction material truck covered by impervious sheets.



Annexure -O3 – Construction Material Trucks are covered with tarpaulin



Annexure- O4 Environmental Monitoring Reports.





NOISE LEVEL MEASURMENT REPORT

Sample ID N/10/23/5745	Report No N/10/23/5745 Rep			eport Date 25/10/2023	
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/Type			Ambient Noise	
Order Reference	Work Order No. 5700330185 Date-22.08.2023 Date of Monitoring		16/10/ 17/10/	2023 to 2023	
Calibration Certificate	Inficate AEC/0722/SM-3 In		Instrument Model Sound level		
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/E	AEC/EQ/2091	

Sr No	Location	Location Day Time (6AM-10PM) dB (A)		Night Time (10PM -6AM) dB (A)			Method	
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	68.4	67.4	69.5	63.4	62.8	64	
2	STP Terminal- 1	61.5	60.1	62.9	54.4	53.6	55.3	1
3	CCR-2	66.1	64.5	66.7	52.6	51.3	53.9	CPCB Protocol for
4	Apron Control	67.4	66.1	68.7	60.6	59.5	61.7	Ambient Level
5	6 No Gate (Sahar)	68.2	66.7	69.7	62.6	61.9	63.4	Nerse Monitoring July
6	38	59.3	58.5	60.2	52.3	51.6	53.1	- AEC/C/SAP/SAM/25 Issue
7	Runway 14 End	66.4	65.1	67.7	56.2	55.4	57.1	no. 4. Issue date (II 04.2018
8	Project Office (Sahar)	64.5	63.8	65.2	50.5	49.8	51.3	
9	Cargo 4D	68.6	67.8	69.4	63.2	62.3	64.1	1
10	OWC Kurla	63.2	62.2	64.3	51.4	50.1	52.7	

	As Per the Environment (Pr	rotection)Rules, 1986, Sched	ule -I			
Serial Number	Inductory	Limits in dB (A) weighted scale				
Senar Number	Industry	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)			
112	Airport (Busy Airport)	70	65			

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

and redh Engineers & Consults

Aboratory Services Dusses

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.



tEt F REP 1-6 Page 1 of 1





D: N/11/23/5319	Repo	rt No.: N/1	1/23/5319)			Report Date	13/11/2023
Address of Customer	Chh 1st l	atrapati S Floor, Tei	Shivaji Mah minal 1B,	araj Inter Santacruz	national Ai	rport,		
ig Done By		Laboratory			Sample De	scription/Ty	pe Ambie	ent Noise
erence				0185	Date of Mo	onitoring	07/11/ 08/11/	2023 to 2023
n Certificate	AEC	/0722/SM	1-3		Instrument	Model	Sound	level Meter
Jumber & Date.	No.C	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022		0500081	Instrument	ID	AEC/E	Q/2091
al Testing; Grou	p: Atmos	pheric P	ollution					
Locatio		Day Ti		-10PM)	Night 1			Method
Location		Leq	Lmin	Lmax	Leq	Lmin	Lmax	_
Runway 27 End		67.5	66.4	68.7	63.7	62.6	64.8	
STP Terminal- 1		62	61.3	62.7	58.8	57.9	59.8	-
CCR-2		69.3	68.2	70.5	65	63.8	66.2	
Apron Control		68.2	67.3	69.2	64.5	63.8	65.3	
6 No Gate (Saha	ar)	69.2	68.3	70.1	61.5	60.6	62.4	CPCB Protocol for Ambient Level Noise Monitoring, July
J 8		65.5	64.8	66.3	55.1	54.4	55.8	AEC/C/SAP/SAM/25 Issue no. 4. Issue date 01.04.201
Runway 14 End		66.3	64.7	68.5	59.8	59.1	60.5	
Project Office (S	ahar)	68.6	67.5	69.8	60.9	60.2	61.7	
Cargo 4D		67.3	66.2	68.4	64.5	63.4	65.7	
OWC Kurla		66.4	65.2	67.6	59.4	58.3	60.4	
				and a state of the				
A	s Per the	Environ	ment (Pro	otection)				
umber	In	dustry		Dav				1 scale 0 p.m. to 6 a.m.)
	Airport (BUSY Air	port)	Day		to pinij	night (1)	65
	Address of Customer g Done By erence n Certificate Aumber & Date. al Testing; Grou Location Runway 27 End STP Terminal- 1 CCR-2 Apron Control 6 No Gate (Saha J 8 Runway 14 End Project Office (S Cargo 4D OWC Kurla	Address of Customer Chh 1 st I mun g Done By Labor ierence Wor Date n Certificate AEC iumber & Date. Forr No.C 0 Da ad Testing; Group: Atmos Location Runway 27 End STP Terminal- 1 CCR-2 Apron Control 6 No Gate (Sahar) J 8 Runway 14 End Project Office (Sahar) Gargo 4D OWC Kurla As Per the umber Ir	Mumbai Internation Mumbai Internation I Address of Customer Ist Floor, Termumbai-4000 ig Done By Laboratory ierence Work Order M n Certificate AEC/0722/SM n Certificate Format 1.0/C No.00001112 0 Date-22.08.2 n Certificate Format 1.0/C No.00001112 0 Date.13.05 cal Testing; Group: Atmospheric P Pay Tri Location Day Tri Location 67.5 STP Terminal- 1 62 CCR-2 69.3 Apron Control 68.2 6 No Gate (Sahar) 69.2 J 8 65.5 Runway 14 End 66.3 Project Office (Sahar) 68.6 Cargo 4D 67.3 OWC Kurla 66.4	Address of CustomerMumbai Internationa Chhatrapati Shivaji Mah 1st Floor, Terminal 1B, Mumbai-400099 Mahara g Done Byg Done ByLaboratoryg Done ByLaboratorygene erenceWork Order No. 570033 Date-22.08.2023n CenificateAEC/0722/SM-3Aumber & Date.Format 1.0/CAC/UAN No.0000111260/CR/220 0 Date.13.05.2022AEC Testing; Group: Atmospheric PollutionLocationDay Time (6AM- dB (A) LeqRunway 27 End67.5STP Terminal- 1626 No Gate (Sahar)69.26 No Gate (Sahar)69.26 No Gate (Sahar)68.26 No Gate (Sahar)68.667.366.364.4Runway 14 End66.366.467.5Cargo 4D67.366.465.2As Per the Environment (Pro	Address of CustomerMumbai International Airport Chatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashra g Done ByLaboratoryg Done ByLaboratoryge ne ByLaboratoryerenceWork Order No. 5700330185 Date-22.08.2023n CertificateAEC/0722/SH-3Aumber & DateFormat 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022Aumber & Date:Day Time (6AM-10PM) dB (A)Late to the colspan="3">LecationDay Time (6AM-10PM) dB (A)Late to the colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3"No.0000111260/CR/220500081 0 Date.13.05.2022Catter colspan="3"Aumber & Date:Day Time (6AM-10PM) dB (A)Late colspan="3"Aumber & Date:Day Time (6AM-10PM) dB (A)Late colspan="3"Aumber & Date:Day Time (6AM-10PM) dB (A)Late colspan="3"Aumon (CR-2)Go (CR-2)			

NOISE LEVEL MEASURMENT REPORT



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Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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



AEC/F/REP/1-G Page no 1 of 1





NOISE LEVEL MEASURMENT REPORT

Sample Report No N/12/23/5997	Report No N/12/23/5997	Report Date	02/01/2024	
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 Typ		Ambie	ent Noise
Order Reference	Work Order No. 5700330185 Date-22.08.2023	Date of Monitoring	26/12/ 27/12/	/2023 to /2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model Sound level M		d level Meter
Consent 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-10PI dB (A)			Night Time 10PM -6AM dB (A)		Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.5	65.9	67.1	61.4	60.4	62.5	
2	STP Terminal- 1	60.5	59.7	61.4	55.8	54.9	56.7	
3	CCR-2	67.5	66.5	68.5	60.3	59.3	61.3	
4	Apron Control	63.5	62.1	64.9	58.3	57.7	59	CPC8 Protocol for
5	6 No Gate (Sahar)	68.6	67.8	69.4	62.4	61.7	63.1	Ambient Level Neise Monitoring July AFC/C/SAP/SAM/25 (38)
6	38	65.8	64.9	66.7	57.5	56.8	58.3	no 4 Issue date DI 64 201
7	Runway 14 End	66.5	65.9	67.1	61.4	60.4	62.5	
8	Project Office (Sahar)	68.6	67.8	69.4	63.3	62.5	64.1	
9	Cargo 4D	68.3	67.3	69.4	62.6	61.8	63.4	
10	OWC Kurla	66.5	65.3	67.8	59.3	58.7	60	
		1		Limit				

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



Note:

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NOISE LEVEL MEASURMENT REPORT

Sample II	D: N/01/24/5413	Report No.: N/	Report No.: N/01/24/5413				Report Date	15/01/2024
Name and	I Address of Customer	Mumbai Int Chhatrapati S 1st Floor, Ter Mumbai-4000	Shivaji Mal minal 1B,	naraj Inte Santacru:	rnational Ai	rport,		
Monitorir	ng Done By	Laboratory				scription/Ty	pe Ambie	ent Noise
Order Rel	ference	Work Order Date-22.08.2		30185	Date of Mo	onitoring	09/01/ 10/01/	2024 to 2024
Calibratio	on Certificate	CC34222300	0000982F		Instrument	Model	Sound	l level Meter
Consen	t Number & Date.	Format 1.0/0 No.00001112 0 Date.13.05	260/CR/22	0500081	Instrument	Serial .No.	54002	I
Chemic	al Testing; Group:	Atmospheric P	ollution					
Sr No	Location	Day Ti	me (6AM dB (A)	-10PM)	Night	Time (10 dB (A	PM -6AM)	Method
51 110	Location	Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	68.3	67.1	69.5	62.7	61.9	63.6	
2	STP Terminal- 1	62.1	61	63.3	58.4	57.2	59.7	-
3	CCR-2	65.1	64.1	66.2	60.6	59.7	61.5	
4	Apron Control	66.2	65.3	67.1	62.6	61.8	63.5	
5	6 No Gate (Sahar)	59.6	58.5	60.7	57.1	56.2	58.1	CPCB Protocol fo Ambient Level Noise Monitoring, July
6	J 8	62.8	61.7	63.9	58.1	57.3	59	AEC/C/SAP/SAM/25. Issue no. 4 Issue date 01 04 201
7	Runway 14 End	67.6	66.5	68.7	60.6	59.4	61.8	
8	Project Office (Saha	ar) 57.5	56.3	58.7	50.4	49.5	51.3	
9	Cargo 4D	63.4	62.3	64.5	59.7	58.8	60.7	
10	OWC Kurla	64.7	63.6	65.9	58.2	57.1	59.4	
				Limit				
	As P	Per the Environ	ment (Pr	otection)				
Serial N	umber	Industry					(A) weighted	
112		irport (Busy Airp	art)	Day	(6 a.m. to 1 70	10 p.m.)	Night (10) p.m. to 6 a.m.) 65



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NOISE LEVEL MEASURMENT REPORT

Sample ID N/02/24/5901	Report No: N/02/24/5901	Report Date	29/02/2024	
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	ent Noise
Order Reference	lata at Monitorna		22/02/ 23/02/	2024 to 2024
Calibration Certificate	CC342223000000982F	CC342223000000982F Instrument Model		d level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument Serial No.	54002	21

Chemical Testing; Group: Atmospheric Pollution

Sr	Location	Day T	dB (A)	10PM)	Night T	ime (10P) dB (A)	4-6AM)	Method
No	Location	Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.5	65.9	67.1	63.7	62.6	64.8	
2	STP Terminal- 1	60.5	59.7	61.4	58.8	57.9	59.8	
3	CCR-2	67.5	66.5	68.5	65	63.8	66.2	
4	Apron Control	63.5	62.1	64.9	64.5	63.8	65.3	CPCB Protocol for Ambient Level Noise Monitoring
5	6 No Gate (Sahar)	68.6	67.8	69.4	61.5	60.6	62.4	
6	18	65.8	64.9	66.7	55.1	54.4	55.8	July 2015
7	Runway 14 End	66.5	65.9	67.1	59.8	59.1	60.5	
8	Project Office (Sahar)	68.6	67.8	69.4	60.9	60.2	61.7	
9	Cargo 4D	68.3	67.3	69.4	64.5	63.4	65.7	
10	OWC Kurla	66.5	65.3	67.8	59.4	58.3	60.4	
		· · · · ·		Limit				

	As Per the Environment (P	rotection)Rules, 1986, Sched	ule -I		
		Limits in dB (A) weighted scale			
Serial Number	Industry	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)		
112	Airport (Busy Airport)	70	65		

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NOISE LEVEL MEASURMENT REPORT

Sample ID: N/03/24/5487	Report No : N/03/24/5487	Report Date	16/03/2024		
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		e Ambie	ent Noise	
Order Reference	Work Order No. 5700330185 Date-22.08.2023	L Date of Monitoring		2024 to 2024	
Calibration Certificate	CC342223000000982F	000982F Instrument Model		Sound level Meter	
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument Serial .No.	54002	21	

Sr No	Location	Day Time	Day Time (6AM-10PM) dB Ni (A)		Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	65.45	67.5	69.4	63.7	62.9	64.5	
2	STP Terminal- 1	63.2	62.3	64.1	57.65	56.7	58.6	
3	CCR-2	65.5	64.8	66.2	59.5	58.3	60.7	
4	Apron Control	63.5	62.8	64.2	55.1	54.2	56	
5	6 No Gate (Sahar)	66.3	65.1	67.5	62.1	61	63.2	CPC8 Protocol for Ambien Level Noise Monitoring, July 2015
6	J 8	58.65	57.8	59.5	51.50	50.1	52.9	- aug 2013
7	Runway 14 End	66.65	65.7	67.6	62.30	61.4	63.2	
8	Project Office (Sahar)	63.2	62.3	64.1	57.5	56.7	58.3	
9	Cargo 4D	67.6	66.7	68.5	62.1	61.2	63	
10	OWC Kurla	62.45	61.5	63.4	52.4	51.1	53.7	
		1		Limit)Rules, 198	-	· · · · · · · · · · · · · · · · · · ·	

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

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/10/23/563	6 R.	eport No. AA/10	0/23/5636	R	eport	Date	24/10/2023	
Name and address of Customer	Chhatrap 1st Floor		araj Internationa Santacruz(E),	I Airpo	rt,			
Sampling done by	Laborator	y.		S	ample	Description / Type	Ambient Air	
Sampling Location	Near Proj	ect Office Saha	ar	D	ate - S	ampling	16/10/2023to 17/10/202	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				ate - R	eceipt of Sample	18/10/2023	
Sampling Procedure	As per m	As per method reference Date - Start of Analysis					18/10/2023	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				ate - C	ompletion of Analysis	23/10/2023	
	Met	eorological	Data / Envi	ronm	ental	Conditions		
Average Wind Velocity 10.9 km/h		Wind Direction Relative Humidity Temperature S-E (Max./Min.): 70/65% (Max./Min.): 32/26°C				the second se	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	Un	nit		Method	
Chemical Testing; Grou	p: Atmos	oheric Poliutio	on					
Sulphur Dioxide (SO2)		11	80	µg/	m ³	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)		27.8	80	µg/	m 3	18 5182 (Part 6) 2006		
Particulate Matter (size less than 10 µm) or PM10		79	100	µд/	m ³	IS 5182 (Part 23):2006		
Particulate Matter (size less than 2.5µm) or PM2.5		36	60	µ9/	m ³	CPCB Guideline, Volume I 38/2012-13, Page No 15:2013		
Lead (as Pb)		BLQ (LOQ:0.02)	1	на/		EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2		
Carbon Monoxide (CO)		1.32	4	mg/	"m³	CPS8 Guidelines, Volume II, 37/2012-13, Page no 16, 2013		
Ammonia (NH3)	32.4	400	µq/	m ³	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, PM10, PM2.5, Lead and Ammonia, 1 hour TWA in

case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-02

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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







Sample ID : AA/10/23/5636 Re

Report No. AA/10/23/5636

Report Date

24/10/2023

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AEC/F/REP/1-8 Page 2 of 2





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/10/23/563	Sample ID : AA/10/23/5637 Report No. AA/10/23/5637				Report Date 24/10/2023				
Name and address of Customer	Chhatrapati	Shivaji Mah rminal 1-B,	Airport Ltd. araj Internationa Santacruz(E), ashtra	Airpo	rt,				
Sampling done by	Laboratory			S	ample	Description / Type	Aml	bient Air	
Sampling Location	MLCP Santac	ruz (T1)		D	ate - S	ampling	16/)	10/2023to 17/10/202	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				Date - Receipt of Sample			18/10/2023	
Sampling Procedure	As per metho	r method reference Da				tart of Analysis	18/10/2023		
Order Reference	Work Order 1 22.08.2023	0185 dated	D	Date - Completion of Analysis		23/10/2023			
	Meteo	rological	Data / Envir	onm	enta	Conditions			
Average Wind Velocity 10.9 km/h				Temperature Max./Min.): 32/26°C	Duration of Survey 24 h				
Parameter		Result	NAAQS# 2009	Un	Unit		Method		
Chemical Testing; Grou	p: Atmosphe	ric Pollutio	n		_				
Sulphur Dioxide (SO2)		8.6	80	hð/	m 3	IS 5182 (Part 2): 2001			
Nitrogen Dioxide (NO2)		28.9	80	µg/	µg/m³ IS 518? (Part 6): 2006				
Particulate Matter (size less than 10 µm) or PM10		72	100	µg/	m ³	IS 5182 (Part 23) 2006			
Particulate Matter (size less than 2.5µm) or PM2.s		33	60	hð/	m 3	CPCE Buideline, Volume 1,36/2012-13, Page No.15/2013			
Lead (as Pb)		BLQ LOQ:0.02)	1	µg/	m ³	EPA/625/R-96/010 a Compendium Method 10-318 3.2			
Carbon Monoxide (CO)		1.19	4	mg/	E ITI	CPC8 Guidelines, Volume II, 37/2012-13, Page no.16, 2013			
Ammonia (NH3)		BLQ (LOQ:20)	400	µg/	m ³	CPC8 Guidelines, Volume 1.36	6/2012-13. 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, PM2.5, Lead and Ammonia, 1 hour TWA in

case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-03

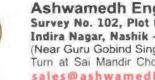
Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



End of Report





Report Date 24/10/2023 Report No. AA/10/23/5637 Sample ID : AA/10/23/5637 ngineers & Cons Ninad Soundankar atory Services Technical Manager (Chemical) Reviewed & Authorised by

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/10/23/563	8 Re	port No. AA/10	0/23/5638	Re	port	Date	24/10/2023	
Name and address of Customer	Chhatrap 1st Floor,		araj International Santacruz(E),	Airport	t,			
Sampling done by	Laborator	Y		Sa	mple	Description / Type	Ambient Air	
Sampling Location	OWC Kurl	а		Da	te - S	ampling	16/10/2023to 17/10/2023	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				ite - R	eccipt of Sample	18/10/2023	
Sampling Procedure	As per method reference				ite - S	tart of Analysis	18/10/2023	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				ite - C	ompletion of Analysis	23/10/2023	
	Met	eorological	Data / Envir	опте	Inta	Conditions		
Average Wind Velocity 10.9 km/h	-	Wind Direction Relative Humidity Temperature Du S-E (Max./Min.): 70/65% (Max./Min.): 32/26°C Du					Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	Uni	it		Method	
Chemical Testing; Grou	p: Atmosp	heric Pollutio	1			· · · · · · · · · · · · · · · · · · ·		
Sulphur Dioxide (SO2)		12.2	80	hð/u	n ³	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)		30.7	80	hð\u	. Э	IS 5/82 (Part 5): 2006		
Particulate Matter (size I than 10 µm) or PM10	Particulate Matter (size less 8 than 10 µm) or PM10		100	µg/n	¶3	IS 5/82 (Part 23) 2006		
Particulate Matter (size less than 2.5µm) or PM2.5		45	60	µg/п	19/m ⁻³ CPCB Guideline, Volume 136.		/2012-13 Page No 15:2013	
Lead (as Pb)			1	µд∕п	n ³	EPA/625/R-96/010 a Compe		
Carbon Monoxide (CO)		1.42	4	mg/r	m3	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013		
Ammonia (NH3)		33.6	400	µg/n	ug/m ³ CPCB Guidelines, Volume I		36/2012-13, Page No 35, 2013	

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

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, Lead and Ammonia, 1 hour TWA in

case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-04

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



End of Report





Sample ID : AA/10/23/5638

Report No. AA/10/23/5638

Report Date

24/10/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/10/23/563	0/23/5639	Rep	ort E	late	24/10/2023			
Name and address of Customer	Chhatrap 1st Floor		araj International Santacruz(E),	Airport,				
Sampling done by	Laborator	У		San	nple I	Description / Type	Ambient Air	
Sampling Location	Sawoday	a Hospital (Gha	etkopar)	Dat	e - Sa	mpling	16/10/2023 to 17/10/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO2	ml x 24 no. pla	aper . plastic bottle eac		e - Re	ceipt of Sample	18/10/2023	
Sampling Procedure	As per m	r method reference Date - Start of Analysis					18/10/2023	
Order Reference	Work Ord 22.08.20	0185 dated	Dat	e - Co	mpletion of Analysis	23/10/2023		
	Met	eorological	Data / Envir	onmei	ntal	Conditions		
Average Wind Velocity 10.9 km/h		Wind Direction Relative Humidity Temperature S-E (Max./Min.): 70/65% (Max./Min.): 32/26°C				the second second	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	Unit			Method	
Chemical Testing; Grou	p: Atmos	oheric Pollutio	п					
Sulphur Dioxide (SO2)		7.3	80	µg/m	3	IS 5(82 (Part 2) 200(
Nitrogen Dioxide (NO2)		26.3	80	µg/m	3	IS S(82 (Part 6) 2006		
Particulate Matter (size less than 10 µm) or PM±0		71	100	µg/m	3	15 5i82 (Part 23) 2006		
Particulate Matter (size less than 2.5µm) or PM2.5		30	60	µg/m	3	CPC8 Guideline, Volume 136/2012-13, Page No 15-2013		
Lead (as Pb)		BLQ (LOQ:0.02)	1	µg/m		EPA/625/R-96/010 a Compe		
Carbon Monoxide (CO)		1.38	4	mg/m	3	CPCB Sudelines, Volume II, 31	37/2012-13, Page no.16, 2013	
Carbon Monoxide (CO)		1.30				CPCB Guidelines, Volume (36.		

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, PM2.5, Lead and Ammonia, 1 hour TWA in

case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-05

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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







Sample ID : AA/10/23/5639

Report No. AA/10/23/5639

Report Date

24/10/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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AEC/F/REP/1-B Page 2 of 2





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/11/23/531	5 R	eport No. AA/1	1/23/5315		Report	Date	18/11/2023	
Name and address of Customer	Chhatrap 1st Floor	Internationa bati Shivaji Mah , Terminal 1-B, 400099, Mahar	araj Internationa Santacruz(E),	al Air	port,			
Sampling done by	Laborato	y			Sample	Description / Type	Ambient Air	
Sampling Location	Near Pro	ject Office Saha	ar		Date - S	Sampling	07/11/2023to 08/11/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO NH3: 10	ad: 1 x 3 no. fi x 1 no. filter p 2: 30 ml x 6 no ml x 24 no. pla . bladder	aper . plastic bottle ea	ach	Date - F	Receipt of Sample	10/11/2023	
Sampling Procedure	As per m	method reference Date - Start of Analysis				10/11/2023		
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - Completion of Analysis		17/11/2023	
	Me	eorological	Data / Envi	roni	menta	I Conditions		
Average Wind Velocity 10 km/h	Wind	Direction S-E	Relative Humin (Max./Min.): 60		a	Temperature (Max./Min.): 33/28°C	Duration of Survey 24 h	
Parameter		Result	NAAQ5# 2009	1	Unit		Method	
Chemical Testing; Grou	p: Atmos	pheric Pollutio						
Sulphur Dioxide (SO2)		11	80	Ч	g/m ³	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)		30.3	80	ц	g/m³	IS 5182 (Part E) 2006		
Particulate Matter (size less & than 10 µm) or PM10		84	100	Ч	g/m³	IS 5182 (Part 23):2006		
Particulate Matter (size less than 2.5µm) or PM2.5		41	60	μ	g/m³	CPCB Guideline, Volume 1.36/2012-13, Page No 15-2013		
Lead (as Pb)		BLQ (LOQ:0.02)	1	μ	g/m³	EPA/625/R-96/010 a Compe	ndium Method 10-3.1 & 3.2	
Carbon Monoxide (CO)		1.39	4	П	ig/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16: 2013		
Ammonia (NH3) 3			400	μ	g/m ³	CPCB Guidelines, Volume 136	/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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-02

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



Technical Manager (Chemical) Reviewed & Authorised by





End of Report





Sample ID : AA/11/23/5315	Report No. AA/11/23/5315	Report Date	18/11/2023	
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Ninad Soundankar Technical Manager (C				
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Note:

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



AEC/F/REP/1-B Page 2 of 2





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/11/23/531	6 R	eport No. AA/1	1/23/5316		Rep	ort E	ate	1	9/11/2023
Name and address of Customer	Chhatrap 1st Floor	ati Shivaji Mal	al Airport Ltd. haraj Internation , Santacruz(E), ashtra	nal Ai	rport,				
Sampling done by	Laborator	У			Sam	ple D	escription / Type	A	mbient Air
Sampling Location	MLCP Sar	ntacruz (T1)			Date	- Sa	mpling	07	7/11/2023to 08/11/202
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle e NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder			ach	Date - Receipt of Sample			10/11/2023	
Sampling Procedure	As per m	As per method reference			Date - Start of Analysis			10/11/2023	
Order Reference	Work Ord 22.08.20	er No. 570033 23	0185 dated		Date - Completion of Analysis		mpletion of Analysis	17/11/2023	
	Met	eorologica	Data / Env	iron	теп	tal	Conditions	-	
Average Wind Velocity 10 km/h	Wind	Direction S-E	Relative Humidity Temperature (Max./Min.): 60/56% (Max./Min.): 33/28°C					Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009		Unit		Method		
Chemical Testing; Grou	p: Atmosp	heric Pollutio	n						
Sulphur Dioxide (SO2)		7.3	80	ł.	µg/m³		IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NOz)		25.9	80	µg/r			15 5187 (Part 6) 2006		
Particulate Matter (size less than 10 µm) or PM10		76	100	µg/m³			IS 5182 (Part 23) 2005		
Particulate Matter (size less than 2.5µm) or PM2.5		37	60	H	µg/m³		CPC8 Guideline, Volume 1,36/2012-13 Page No.15/2013		3 Page No 15:2013
Lead (as Pb)	Lead (as Pb)		1	μ	µg/m³		EPA/625/R-96/DIO a Compendium Method ID-3.1 & 3.2		Method ID-3.1 & 3.2
Carbon Monoxide (CO)		1.1	4	n	ng/m³ CPCB Guidelines. Volume IL 3		CPCB Guidelines, Volume II, 37	7/2012-13. Page no.16: 2013	
Ammonia (NH3)		BLQ (LOQ:20)	400	μ	ig/m ³		CPC9 Guidelines, Volume 136/2012-13, Page No.35, 2013		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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-03

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by









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Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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



AEC/F/PEP 1-B Page 2 of 2





AMBIENT AIR QUALITY MONITORING REPORT

7 Report No. AA/11/23/5317	Report Date	18/11/2023
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Ai 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	rport,	
Laboratory	Sample Description / Type	Ambient Air
OWC Kurla	Date - Sampling	07/11/2023to 08/11/2023
PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	10/11/2023
As per method reference	Date - Start of Analysis	10/11/2023
Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	17/11/2023
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Ai 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra Laboratory OWC Kurla PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder As per method reference Work Order No. 5700330185 dated	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra Laboratory Sample Description / Type OWC Kurla Date - Sampling PM10, Lead: 1 x 3 no. filter paper Date - Receipt of Sample PM2.5: 1 x 1 no. filter paper Solate - Receipt of Sample SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder Date - Start of Analysis Work Order No. 5700330185 dated Date - Completion of Analysis

Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey	
10 km/h	S-E	(Max./Min.): 6	0/56%	(Max./Min.): 33/28°C	24 h	
Parameter	Result	NAAQS# 2009	Unit	M	lethod	
Chemical Testing; Group:	Atmospheric Pollutio	on				
Sulphur Dioxide (SO2)	12.2	80	µg/m³	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)	31.8	80	µg/m³	IS 5182 (Part 6) 2006		
Particulate Matter (size less than 10 µm) or PM10	87	100	µg/m³	IS 5182 (Part 23):2006		
Particulate Matter (size less than 2.5µm) or PM2.5	48	60	µg/m³	CPCB Guideline, Volume 1.36/200	2 13 Page No 15:2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/E25/R-96/010 a Compendium Method 10-3.1.6.3.2		
Carbon Monoxide (CO)	1.55	4	mg/m³	CPCB Guidelines, Volume 11, 37/21	012-13, Pege no.16: 2013	
Ammonia (NH3)	36.1	400	µg/m ³	CPCB 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, PM10, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

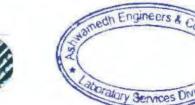
Sampling Equipment ID: AEC/TH/RDS-02

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by







Sample ID : AA/11/23/5317

Report No. AA/11/23/5317

Report Date

18/11/2023

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







AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/11/23/531	8 R	eport No. AA/1	1/23/5318		Report	Date	18/11/2023	
Name and address of Customer	Chhatrap 1st Floor		naraj Internation Santacruz(E),	a) Air	port,			
Sampling done by	Laborator	ŷ			Sample	Description / Type	Ambient Air	
Sampling Location	Sarvoday	a Hospital (Gh	atkopar)		Date - S	Sampling	07/11/2023tc 08/11/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO2 NH3: 10 1	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				Receipt of Sample	10/11/2023	
Sampling Procedure	As per m	ethod referenc	e		Date - S	Start of Analysis	10/11/2023	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - (Completion of Analysis	17/11/2023	
	Met	eorological	Data / Envi	ron	menta	l Conditions		
Average Wind Velocity 10 km/h		Direction S-E	Relative Humi (Max./Min.): 60		/o	Temperature (Max./Min.): 33/28°C	Duration of Survey 24 h	
Parameter	-	Result	NAAQS# 2009		Unit		Method	
Chemical Testing; Grou	p: Atmosp	pheric Pollutio	on					
Sulphur Dioxide (SO2)		8.6	80	ŀ	ıg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO2)		29.2	80	ł	ıg/m³	IS 5182 (Part 6): 2006		
Particulate Matter (size I than 10 µm) or PM10	ess	80	100	ł	ıg/m³	IS 5(82 (Part 23):2006		
Particulate Matter (size less 39 than 2.5µm) or PM2.5		60	ŀ	ig/m³	CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013			
Lead (as Pb)		BLQ (LOQ:0.02)	1	ł	ıg/m³	EPA/625/R-96/010 a Compe	ndium Method 10-3.1.8.3.2	
Carbon Monoxide (CO)		1.18	4	n	ng/m³	CPCB Guidelines, Volume II, 37	7/2012-13, Page no.16: 2013	
Ammonia (NH3)	400	(P	ig/m ³	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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-05

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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



End of Report





 Sample ID : AA/11/23/5318
 Report No. AA/11/23/5318
 Report Date
 18/11/2023

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 Image: Chemical Manager (Chemical)
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Note

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







AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/23/593	6 R	eport No. AA/1.	2/23/5936		Report	Date	03/01/2024	
Name and address of Customer	Chhatrap 1st Floor	Internationa bati Shivaji Mah , Terminal 1-B, 400099,Mahara	araj Internationa Santacruz(E),	I Airj	oort,			
Sampling done by	Laborator	Y			Sample	Description / Type	Ambient Air	
Sampling Location	Near Pro	ject Office Saha	ar		Date - S	ampling	26/12/2023 to 27/12/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO: NH3: 10	ad: 1 x 3 no. fill x 1 no. filter pi 2: 30 ml x 6 no ml x 24 no. pla . bladder	aper plastic bottle ea	ich	Date - R	28/12/2023		
Sampling Procedure	As per m	ethod referenci	e		Date - S	tart of Analysis	28/12/2023	
Order Reference		Nork Order No. 5700330185 dated 22.08.2023			Date - C	Completion of Analysis	02/01/2024	
	Met	eorological	Data / Envi	ron	menta	I Conditions		
Average Wind Velocity 9.4 km/h		Direction S-W	Relative Humic (Max./Min.): 77		a 1	Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009		Unit		Method	
Chemical Testing; Grou	p: Atmos	pheric Pollutio	n					
Sulphur Dioxide (SO2)		13.2	80	Ц	g/m³	IS 5182 (Part 2), 2001		
Nitrogen Dioxide (NO2)		34.8	80	μ	g/m³	IS 5182 (Part 6), 2006		
Particulate Matter (size I than 10 µm) or PM10	ess	87	100	μ	g/m³	IS 5182 (Part 23) 2006		
Particulate Matter (size l than 2.5µm) or PM2.5	ess	49	60	hð h		CPC8 Guideline, Volume 1.367		
Lead (as Pb)		BLQ (LOQ:0.02)	1	Ч	µg/m³ ЕРА/625/R-96/010 в Compand			
Carbon Monoxide (CO)		1.48	4	r	ng/m³	CPCB Guidelines, Volume II 3		
Ammonia (NH3)					/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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment 1D: AEC/TH/RDS-02

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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

Ninad Soundankar Technical Manager (Cheniical) Reviewed & Authorised by









Sample 1D : AA/12/23/5936 Report No. AA/12/23/5936 R

Report Date

03/01/2024

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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







AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/23/593	7 Report	No. AA/1	2/23/5937		Repor	t Date	1	03/01/2024	
Name and address of Customer	Chhatrapati S	hivaji Mah minal 1-B,	I Airport Ltd. haraj Internationa Santacruz(E), ashtra	al Air	port,				
Sampling done by	Laboratory				Samp	le Description / Type		Ambient Air	
Sampling Location	MLCP Santacru	uz (T1)			Date -	Sampling		26/12/2023tc 27/12/202	
Sample Quantity / Packing	PM10, lead: 1 PM2.5: 1 x 1 n SO2, NO2: 30 NH3: 10 ml x CO: 1 no. blac	no, filter p ml x 6 no 24 no, pla	ach	Date -	Receipt of Sample		28/12/2023		
Sampling Procedure	As per method	d reference	e		Date -	Start of Analysis		28/12/2023	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date -	Completion of Analy	sis	02/01/2024	
	Meteor	ological	Data / Envi	ron	ment	al Conditions			
Average Wind Velocity 9.4 km/h	Wind Direc	tion	Relative Humi (Max./Min.): 77		'n	Temperature (Max./Min.): 30/26°C		Duration of Survey 24 h	
Parameter	R	Result	NAAQS# 2009		Unit	Method			
Chemical Testing; Grou	p: Atmospheri	c Pollutio	on						
Sulphur Dioxide (SO2)		8.4	80	μ	g/m ³	IS 5482 (Part 2) 2004			
Nitrogen Dioxide (NO2)		28.7	80	μ	g/m³	IS 5882 (Part 6) 2006			
Particulate Matter (size h than 10 µm) or PM10	ess	80	100	μ	g/m³	IS 5(82 (Part 23) 2006	IS 5182 (Part 23) 2006		
Particulate Matter (size b than 2.5µm) or PM2.5	ess	41	60	μ	g/m³	CPC8 Guideline, Volume	CPC8 Guideline, Volume I 36/2012-13, Prige No 15:2013		
Lead (as Pb)		BLQ)Q:0.02)	1	μg/m³ ΕΡΑ/625/R-96/010 a Ci		mpendi	um Method (0-3163?		
Carbon Monoxide (CO)		1.22	4	П	ig/m³	CPCB Guidelines, Volume	11, 32/2	1012-13. Page no.16. 2013	
Ammonia (NH3)		BLQ 0Q:20)	400	Ч	g/m³	CPCB Guidelines, Volume 1.36/2012-13, Page No.35, 2013			

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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-03

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



End of Report

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 Sample ID : AA/12/23/5937
 Report No: AA/12/23/5937
 Report Date
 03/01/2024

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 Technical Manager (Chemical)
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Note

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/23/593	8 R	eport No. AA/1	2/23/5938		Report	Date	03/01/2024	
Name and address of Customer	Chhatrap 1st Floor		araj Internationa Santacruz(E),	l Airp	iort,			
Sampling done by	Laborator	У			Sample	Description / Type	Ambient Air	
Sampling Location	OWC (Ku	rla)			Date - 5	Sampling	26/12/2023to 27/12/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO NH3: 10	 10, lead: 1 x 3 no. filter paper 2.s: 1 x 1 no. filter paper 2, NO2: 30 ml x 6 no. plastic bottle each 3: 10 ml x 24 no. plastic bottle : 1 no. bladder 				Receipt of Sample	28/12/2023	
Sampling Procedure	As per m	ethod referenc	e		Date-5	Start of Analysis	28/12/2023	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - 0	Completion of Analysis	02/01/2024	
	Met	eorological	Data / Envi	onn	nenta	I Conditions		
Average Wind Velocity 9.4 km/h	-	Direction S-W	Relative Humic (Max./Min.): 77,			Temperature (Max./Min.): 30/26°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	L	Init		Method	
Chemical Testing; Grou	p: Atmos	pheric Pollutio						
Sulphur Dioxide (SO2)		15.7	80	μg	/m ³	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)		35.5	80	þg	/m ³	IS 5182 (Part 6) 2006		
Particulate Matter (size li than 10 µm) or PM10	ess	91	100	μg)/m³	IS 5182 (Part 23):2006		
Particulate Matter (size li than 2.5µm) or PM2-5	Particulate Matter (size less 53 60		μg	3 اتتا/ا	CPCB Guidekne, Volume 1,3672012-13, Page No 15:2013			
Lead (as Pb)		BLQ (LOQ:0.02)	1	μg	µg/m 3 EP4/625/R-96/010 a Compendium Method 10-31 6 3			
Carbon Monoxide (CO)		1.69	4	m	g/m³	CPCB Guidelines Volume II 37	/2012-13, Page on 16, 2013	
Ammonia (NH3)	400		/m 3	CPC8 Guidelines, Volume 1.36	2100 25 sk and 21 2100			

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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment 1D: AEC/TH/RDS-04

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111250/CR/2205000810 Date 13.05.2022

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by









Sample ID : AA/12/23/5938 Report No. AA/12/23/5938 Report Date 03/01/2024

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/23/593	9 R	eport No. AA/12	2/23/5939	Re	port	Date	03/01/2024	
Name and address of Customer	Chhatrap 1st Floor	Internationa ati Shivaji Mah , Terminal 1-B, 400099,Mahara	araj Internationa Santacruz(E),	l Airpor	t,			
Sampling done by	Laborator	У		Sa	mple	Description / Type	Ambient Air	
Sampling Location	Sarvoday	a Hospital (Cha	atkopar)	D.	ite - S	ampling	26/12/2023to 27/12/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO: NH3: 10	lead: 1 x 3 no. filter paper 1 x 1 no. filter paper IO2: 30 ml x 6 no. plastic bottle each 0 ml x 24 no. plastic bottle no. bladder				eccipt of Sample	28/12/2023	
Sampling Procedure	As per m	ethod reference	e	Di	Date - Start of Analysis		28/12/2023	
Order Reference	A REPORT OF A	Work Order No. 5700330185 dated 22.08.2023				ompletion of Analysis	02/01/2024	
	Met	eorological	Data / Envi	ronme	enta			
Average Wind Velocity 9.4 km/h		Direction S-W	Relative Humic (Max./Min.): 77		(Temperature Max./Min.): 30/26°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	Un	it		Method	
Chemical Testing; Grou	p: Atmos	pheric Pollutio	on					
Sulphur Dioxide (SO2)		10.8	80	µg/r	n 3	IS 5182 (Part 2) 2001		
Nitrogen Dioxide (NO2)		32.3	80	µg/r	n³	IS 5182 (Part 6): 2006		
Particulate Matter (size I than 10 µm) or PM10	ess	84	100	49/r	n ³	IS 5182 (Part 23) 2006		
and the second sec	Particulate Matter (size less 46 60		hð\t	3	CPCB Guideline, Volume 1.36/2012-13, Page No 15:2013			
Lead (as Pb)		BLQ (LOQ:0.02)	1	µд∕г		EPA/625/R-9E/010 a Compe		
Carbon Monoxide (CO)		1.36	4	mg/	m ³	CPCB Guidelines, Volume II, 3		
Ammonia (NH3)	400	µg/r	na	CPCB Guidelines Volume 136	/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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-05

Calibration Certificate No.: ECL/AEC/2022-23/FLOW/3936A

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

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Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by









 Sample ID : AA/12/23/5939
 Report No. AA/12/23/5939
 Report Date
 03/01/2024

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/533	3 Report	No. AA/O	1/24/5333		Repor	Date	1	7/01/2024	
Name and address of Customer	Chhatrapati S	shivaji Mah minal 1-B,	I Airport Ltd. haraj Internation Santacruz(E), ashtra	nal Ai	rport,				
Sampling done by	Laboratory				Sampl	e Description / Type	A	mbient Air	
Sampling Location	Sarvodaya Ho	Sarvodaya Hospital Ghatkopar				Sampling	0	9/01/2024to 10/01/2024	
Sample Quantity / Packing	PM2.5: 1 x 1 r SO2, NO2: 30 NH3: 10 ml x	2M10, Lead: 1 x 3 no. filter paper 2M2.5: 1 x 1 no. filter paper 5O2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				Receipt of Sample	1	11/01/2024	
Sampling Procedure	As per method	d referenc	e		Date - Start of Analysis			11/01/2024	
Order Reference	Work Order No 22.08.2023	0185 dated		Date -	Completion of Analysis	1	6/01/2024		
	Meteor	ological	Data / Env	iron	menta	al Conditions			
Average Wind Velocity 11.4 km/h	Wind Direc	ction	Relative Hum (Max./Min.): 7		%	Temperature (Max./Min.): 32/27°C		Duration of Survey 24 h	
Parameter	F	Result	NAAQS# 2009		Unit		Me	thod	
Chemical Testing; Grou	p: Atmospheri	ic Pollutio	on						
Sulphur Dioxide (SO2)		12	80	ŀ	Jg/m³	IS 5182 (Part 2/Sec I): 2023			
Nitrogen Dioxide (NO2)		30.5	80	ŀ	ıg/m³	IS 5182 (Part 6): 2017	i182 (Part 6): 2017		
Particulate Matter (size le than 10 µm) or PM10	ess	80	100	ŀ	ıg/m³	IS 5182 (Part 23): 2017	IS 5182 (Part 23): 2017		
Particulate Matter (size le than 2.5µm) or PM2.5	ess	39	60	ł	µg/m³ CPC8 Guideline, Volume 1.367		2012	-13. Page No.15:2013	
Lead (as Pb)	(LC	BLQ DQ:0.02)	1	ł	ıg∕m³	EPA/625/R-96/010 a Compe	endiur	m Method (0-3.1 & 3.2, Jun. 1999	
Carbon Monoxide (CO)		1.28	4	n	ng/m³	CPCB Guidelines, Volume II, 3	7/20	12-13, Page no. 16: 2013	
Ammonia (NH3)		30.2	400	ŀ	Jg/m ³	CPCB Guidelines, Volume 1.36	/2013	2-13, 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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Sampling Equipment ID: AEC/EQ/1604

Calibration Certificate No.: CC342223000001528F

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







Sample ID : AA/01/24/5333 Report No. AA/01/24/5333

Report Date 17/01/2024

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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

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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, deviations or exclusions from the method.







CPCB Guidelines, Volume 1.36/2012-13, Page No.35: 2013

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/533	4 Re	eport No. AA/0	1/24/5334		Report	Date	17	/01/2024	
Name and address of Customer	Chhatrapa 1st Floor,	ati Shivaji Mah	I Airport Ltd. haraj Internatior Santacruz(E), ashtra	nal Aii	rport,		,		
Sampling done by	Laboratory	/			Sample	Description / Type	An	nbient Air	
Sampling Location	Near Proje	ect Office Saha	ar		Date - S	Sampling	09	/01/2024tc 10/01/2024	
Sample Quantity / Packing	PM2.5: 1) SO2, NO2:	nl x 24 no. pla	aper . plastic bottle e	each	Date - Receipt of Sample			11/01/2024	
Sampling Procedure	As per me	thod referenc	e		Date - S	Start of Analysis	11	/01/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - Completion of Analysis			/01/2024	
	Mete	eorological	Data / Env	iron	menta	I Conditions			
Average Wind Velocity 11.4 km/h		Direction W	Relative Hum (Max./Min.): 7		10	Temperature (Max./Min.): 32/27°C		Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009		Unit		Met	hod	
Chemical Testing; Grou	p: Atmosp	heric Pollutio	n						
Sulphur Dioxide (SO2)		14.4	80	ŀ	ig/m ³	IS 5182 (Part 2/Sec I): 2023			
Nitrogen Dioxide (NO2)		36.5	80	ŀ	ıg/m³	IS 5182 (Part 6): 2017			
Particulate Matter (size h than 10 µm) or PM10	ess	83	100	ŀ	µg/m³ IS 5182 (Part 23): 2017				
Particulate Matter (size l than 2.5µm) or PM2.5	ess	46	60	1	ug/m³ CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013			3. Page No.15:2013	
Lead (as Pb)		BLQ (LOQ:0.02)	1	ŀ	ıg/m ³	n ³ EPA/625/R-96/010 a Compendium Method 10-3.1 6 3.2, Jun. 199			
Carbon Monoxide (CO)		1.39	4	n	ng/m ³	CPC8 Guidelines, Volume II, 37	/2012	?-13, Page no.16: 2013	
				_			_	and the second s	

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

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TWA Time Weighted Average

Ammonia (NH₃)

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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

400

µg/m³

Sampling Equipment ID: AEC/EQ/1601

Calibration Certificate No.: CC342223000001514F

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







Sample ID : AA/01/24/5334

Report No. AA/01/24/5334

Report Date

17/01/2024

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Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/533	5 Report No. AA	4/01/24/5335	1	Report	Date	17/01/2024		
Name and address of Customer	Mumbai Internatio Chhatrapati Shivaji N 1st Floor, Terminal 1 Mumbai-400099,Mal	Maharaj Internation -B, Santacruz(E),	al Airp	ort,				
Sampling done by	Laboratory			Sample	Description / Type	Ambient Air		
Sampling Location	MLCP Santacruz (T1)		1	Date - S	ampling	09/01/2024to 10/01/202		
Sample Quantity / Packing	PM ₁₀ , Lead: 1 x 3 no PM _{2.5} : 1 x 1 no. filte SO ₂ , NO ₂ : 30 ml x 6 NH ₃ : 10 ml x 24 no. CO: 1 no. bladder	r paper no. plastic bottle e		Date - R	eceipt of Sample	11/01/2024		
Sampling Procedure	As per method refere	ence	1	Date - S	tart of Analysis	11/01/2024		
Order Reference	Work Order No. 5700 22.08.2023	Work Order No. 5700330185 dated 22.08.2023			completion of Analysis	16/01/2024		
	Meteorologie	cal Data / Envi	ronm	enta	Conditions			
Average Wind Velocity 11.4 km/h	Wind Direction S-W	Relative Humi (Max./Min.): 79		(Temperature Max./Min.): 32/27°C	Duration of Survey 24 h		
Parameter	Result	NAAQS# 2009	U	nit		Method		
Chemical Testing; Grou	p: Atmospheric Poll	ution						
Sulphur Dioxide (SO2)	9.6	80	μg,	/m³	IS 5182 (Part 2/Sec 1): 2023			
Nitrogen Dioxide (NO2)	26.2	80	µg,	/m ³	IS 5182 (Part 6): 2017			
Particulate Matter (size le than 10 µm) or PM10	ess 76	100	hð	/m³	IS 5182 (Part 23): 2017			
Particulate Matter (size le than 2.5µm) or PM2.5	ess 35	60	μg,	/m ³	CPCB Guideline, Volume 1.36/2	2012-13, Page No.15:2013		
Lead (as Pb)	BLQ (LOQ:0.0	2) 1	μg	μg/m ³ EPA/625/R-96/DiD a Compendium Method IO-31 & 3.2.				
Carbon Monoxide (CO)	1.14	4	mg	/m³	CPCB Guidelines, Volume II, 37	/2012-13, Page no.16: 2013		
Ammonia (NH3)	BLQ (LOQ:20	400	49	/m³	CPCB Guidelines, Valume 1,367	'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, PM2.5, Lead and Ammonia, 1 hour TWA

in case of Carbon Monoxide.

Sampling Equipment ID: AEC/EQ/1602

Calibration Certificate No.: CC342223000001517F

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



End of Report





Sample ID : AA/01/24/5335

Report Date

17/01/2024

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Report No. AA/01/24/5335

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/533	6 F	Report No. AA/0	1/24/5336	Rep	ort Date	17/01/2024		
Name and address of Customer	Chhatra 1st Floo	i Internationa pati Shivaji Mah r, Terminal 1-B, -400099,Mahar	araj Internationa Santacruz(E),	Airport,				
Sampling done by	Laborato	ory		Sam	ple Description / Type	Ambient Air		
Sampling Location	OWC Ku	rla		Dat	e - Sampling	09/01/2024 to 10/01/2024		
Sample Quantity / Packing	PM2.5: 1 SO2, NO NH3: 10	ead: 1 x 3 no. fi x 1 no. filter p 2: 30 ml x 6 no ml x 24 no. pla o. bladder	aper . plastic bottle ea		e - Receipt of Sample	11/01/2024		
Sampling Procedure	As per m	nethod referenc	e	Dat	e - Start of Analysis	11/01/2024		
Order Reference	Work Or 22.08.20	der No. 570033 023	0185 dated	Dat	e - Completion of Analysis	16/01/2024		
	Me	teorological	Data / Envir	onmer	tal Conditions			
Average Wind Velocity 11.4 km/h	Wind	S-W	Relative Humid (Max./Min.): 79/		Temperature (Max./Min.): 32/27°C	Duration of Survey 24 h		
Parameter		Result	NAAQS# 2009	Unit		Method		
Chemical Testing; Grou	p: Atmos	pheric Pollutio	on					
Sulphur Dioxide (SO2)		13.2	80	µg/m ³	IS 5182 (Part 2/Sec 1): 2023			
Nitrogen Dioxide (NO2)		31.9	80	µg/m ³	IS 5182 (Part 6): 2017			
Particulate Matter (size h than 10 µm) or PM10	ess	86	100	µg/m³	IS 5182 (Part 23): 2017			
Particulate Matter (size li than 2.5µm) or PM2.5	ess	49	60	µg/m³	CPCB Suideline, Valume 1,36.	/2012-13. Page No.15:2013		
Lead (as Pb)		BLQ (LOQ:0.02)	1	µg/m ³		endium Method 10-3.1 & 3.2. Jun: 1999		
		20. x.200	4		g/m³ CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013			
Carbon Monoxide (CO)		1.52	4	mg/m	S LPLB Guidelines, Volume II, 2	177 LUIZMA, FBYE HUNU. ZUIA		

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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

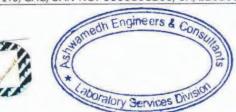
Sampling Equipment ID: AEC/EQ/1603

Calibration Certificate No.: CC342223000001520F

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by







Sample ID : AA/01/24/5336

17/01/2024 Report Date

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Report No. AA/01/24/5336

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/578	2 Report No. AA/	/02/24/5782	Repor	t Date	01/03	3/2024	
Name and address of Customer	Mumbai Internation Chhatrapati Shivaji Ma 1st Floor, Terminal 1-1 Mumbai-400099,Maha	aharaj International Ai B, Santacruz(E),	rport,				
Sampling done by	Laboratory		Samp	le Description / Type	Ambient Air		
Sampling Location	Project Office Sahar		Date -	Sampling	22/02/2024 to 23/02/2024		
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. PM2.5: 1 x 1 no. filter SO2, NO2: 30 ml x 6 r NH3: 10 ml x 24 no. p CO: 1 no. bladder	paper no. plastic bottle each	aper plastic bottle each				
Sampling Procedure	As per method referer	ice	Date -	Start of Analysis	24/03	2/2024	
Order Reference	Work Order No. 57003 22.08.2023	330185 dated	Date -	Completion of Analysis	29/07	29/02/2024	
	Meteorologic	al Data / Environ	ment	al Conditions			
Average Wind Velocity 11.7 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 81/69		Temperature (Max./Min.): 33/26°C		ration of Survey 24 h	
Bernsteinken	Deculit	NAAOS#	Hait		d		

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atm	ospheric Pollutio	n		
Sulphur Dioxide (SO2)	13	80	µg/m³	IS 5/82 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO2)	34	80	µg/m³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM:0	80	100	hð\w ₃	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM2.5	42	60	µg/m³	CPCB Guideline, Volume 35/2012-13, Page No.15.2013
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/ 625/R-96/010 a Compendium Method 10-3.1 & 3.2, Ju 1999
Carbon Monoxide (CO)	1.28	4	mg/m ³	CPC9 Guidelines, Volume II, 37/2012-13, Page no.16, 2013
Ammonia (NH3)	37.1	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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1601

Calibration Certificate No.: CC342223000001514F

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





Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/578	0 Report No	. AA/02	2/24/5780		Repor	t Date		01	1/03/2024	
Name and address of Customer	Mumbai Interna Chhatrapati Shiva 1st Floor, Termin Mumbai-400099,	aji Mah al 1-B,	araj Internation Santacruz(E),	ial Ai	rport,					
Sampling done by	Laboratory				Samp	le Description	/ Туре	Ar	nbient Air	
Sampling Location	MLCP Santacruz ((T1)			Date	Sampling		22	2/02/2024 to 23/02/202	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 ng. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder			Date - Receipt of Sample			24	4/02/2024		
Sampling Procedure	As per method re	per method reference				Date - Start of Analysis			24/02/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - Completion of Analysis			29/02/2024		
	Meteorolo	gical	Data / Envi	iron	ment	al Conditio	ons			
Average Wind Velocity 11.7 km/h	Wind Direction S-W	n	Relative Hum (Max./Min.): 8:						Duration of Survey 24 h	
Parameter	Res	ult	NAAQ5# 2009		Unit		Method			
Chemical Testing; Grou	p: Atmospheric P	ollutio	on							
Sulphur Dioxide (SO2)	8.	3	80	1	Jg/m³	IS SI82 (Part	IS S182 (Part 2/Sec 1): 2023			
Nitrogen Dioxide (NO2)	27	.7	80	1	Jg/m³	IS 5182 (Part	IS 5182 (Part 6): 2017			
Particulate Matter (size li than 10 µm) or PM10	ess 7:	2	100)	Jg/m³	IS 5182 (Part	IS 5182 (Part 23): 2017			
Particulate Matter (size less 31 than 2.5µm) or PM2.s			60	1	Jg/m³	CPC8 Guidelin	CPC8 Guideline, Volume 1.36/2012-13, Page No. 15:2013			
Lead (as Pb)	BLQ 1 (LOQ:0.02)		.1	ug/m³	EPA/625/R-9 1999	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2. Jun 1999				
Carbon Monoxide (CO)	1.0	02	4	r	ng/m ³	CPC8 Guidelin	es, Volume II, 3	7/20	12-13, Page no.16, 2013	
Ammonia (NH3)	BL (LOQ		400	.1	ug/m³	CPC8 Guidelin	es. Volume I.36	/2012	2-13. 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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1602

Calibration Certificate No.: CC342223000001517F

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by









Report No. AA/02/24/5780

Ashwamedh Engineers & Consultants Survey No. 102, Plot No.26, Wadala Pathardi Road, Indira Nagar, Nashik - 422009, Maharashtra, India (Near Guru Gobind Singh School, Near Pandav Nagari, Turn at Sai Mandir Chowk / Samrat Sweet Turning) sales@ashwamedh.net +91-253-2392225

Sample ID : AA/02/24/5780

Report Date

01/03/2024

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/578	1 F	Report No. AA/0.	2/24/5781		Report	Date	01/03/2024	
Name and address of Customer	Chhatra 1st Floor	i Internationa pati Shivaji Mah r, Terminal 1-B, -400099,Mahara	araj Internation Santacruz(E),	al Air	port,			
Sampling done by	Laborato	ry			Sample	Description / Type	Ambient Air	
Sampling Location	OWC Kur	rla			Date - S	ampling	22/02/2024 to 23/02/2024	
Sample Quantity / Packing	PM2.5: 1 SO2, NO NH3: 10	M10, Lead: 1 x 3 no. filter paper M2.5: 1 x 1 no. filter paper GO2, NO2: 30 ml x 6 no. plastic bottle each IH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder			Date - F	teceipt of Sample	24/02/2024	
Sampling Procedure	As per m	er method reference				tart of Analysis	24/02/2024	
Order Reference		Work Order No. 5700330185 dated 22.08.2023				Completion of Analysis	29/02/2024	
	Met	teorological	Data / Envi	ron	menta	I Conditions		
Average Wind Velocity 11.7 km/h		Direction S-W	Relative Humi (Max./Min.): 81		10	Temperature (Max./Min.): 33/26°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009		Unit		Method	
Chemical Testing; Grou	p: Atmos	pheric Pollutio	Contract of Contra					
Sulphur Dioxide (SO2)	_	14.2	80	µg/m ³		IS 5182 (Part 2/Sec 1): 2023		
Nitrogen Dioxide (NO2)		34.8	80	ł	ig/m ³	IS 5182 (Part 6) 2017		
Particulate Matter (size I than 10 µm) or PM10	ess	89	100	ŀ	ig/m³	IS 5182 (Part 23): 2017		
Particulate Matter (size less 51 than 2.5µm) or PM2.5		60	٢	ig/m³	CPCB Guideline, Volume 1.3672012-13, Page No.15:2013			
Lead (as Pb)		BLQ (LOQ:0.02)	1	ł	ig/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 6 3.2, Jun: 1999		
Carbon Monoxide (CO)		1.66	4	n	ng/m³	CPCB Guidelines, Volume II, 37	7/2012-13, Page no.16, 2013	
Ammonia (NH3)		39.2 400			µg/m³ CPC8 Guidelines. Volu		/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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1603

Calibration Certificate No.: CC342223000001520F

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



Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/578	3 F	Report No. AA/0	2/24/5783	Re	port	Date	01/03/2024	
Name and address of Customer	Chhatra 1st Floo	i Internationa pati Shivaji Mah r, Terminal 1-B, -400099,Mahara	araj Internationa Santacruz(E),	Airport	t,			
Sampling done by	Laborato	ry		Sa	mple	Description / Type	Ambient Air	
Sampling Location	Sorvody	a Hospital (Gha	tkopar)	Da	ite - S	ampling	22/02/2024to 23/02/202	
Sample Quantity / Packing	PM2.5: 1 SO2, NO NH3: 10	PM10, Lead: 1 x 3 no. filter paper PM2,5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				eceipt of Sample	24/02/2024	
Sampling Procedure	As per m	er method reference				tart of Analysis	24/02/2024	
Order Reference		Work Order No. 5700330185 dated 22.08.2023				ompletion of Analysis	29/02/2024	
	Me	teorological	Data / Envir	onme	ntai	Conditions		
Average Wind Velocity 11.7 km/h	Wind	S-W	Relative Humic (Max./Min.): 81/		(Temperature Max./Min.): 33/26°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	Uni	t	Method		
Chemical Testing; Grou	p: Atmos	pheric Pollutio	on .					
Sulphur Dioxide (SO2)		10.7	80	µg/m	13	IS 5182 (Part 2/Sec I) 2023		
Nitrogen Dioxide (NO2)		31.2	80	µg/m	3	iS 5182 (Part 6): 2017		
Particulate Matter (size in than 10 µm) or PM10	ess	77	100	µg/m	13	IS 5182 (Part 23): 2017		
Particulate Matter (size less 36 than 2.5µm) or PM2.5		60	µд/п	73	CPCB Guideline, Volume 1,35/2012-13, Page No.15:2013			
Lead (as Pb)		BLQ (LOQ:0.02)	1	µg/m	13	EPA/625/R-96/010 e Compet 1899	ndium Method 10-3163.2 Jun	
Carbon Manavida (CO)		1.19	4	mg/n	n ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013		
Carbon Monoxide (CO)	ia (NH3) 33.4					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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

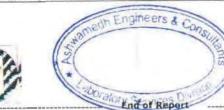
Sampling Equipment ID: AEC/EQ/1604

Calibration Certificate No.: CC342223000001528F

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



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Page 1 of 1





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/24/539	0 Repor	t No. AA/O	3/24/5390		Report	Date	16/03/2024	
Name and address of Customer	Chhatrapati S	Shivaji Mat minal 1-B,	I Airport Ltd. haraj Internationa , Santacruz(E), ashtra	l Airp	ort,			
Sampling done by	Laboratory				Sample	Description / Type	Ambient Air	
Sampling Location	Project Office	Sahar		1	Date - S	ampling	11/03/2024to 12/03/202	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paperDPM2.5: 1 x 1 no. filter paperSO2, NO2: 30 ml x 6 no. plastic bottle eachNH3: 10 ml x 24 no. plastic bottleCO: 1 no. bladder				Date - I	Receipt of Sample	13/03/2024	
Sampling Procedure	As per metho	As per method reference				start of Analysis	13/03/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023			1	Date - C	Completion of Analysis	16/03/2024	
	Meteor	rological	Data / Envir	onn	enta	I Conditions		
Average Wind Velocity 11.2 km/h	Wind Dire S-N	ction	Relative Humid (Max./Min.): 76/			Temperature (Max./Min.): 32/25°C	Duration of Survey 24 h	
Parameter		Result	NAAQS# 2009	U	1		Method	
Chemical Testing; Grou	p: Atmospher	ric Pollutio	on					
Sulphur Dioxide (SO2)		13	80	рд	/m ³	IS 5182 (Part 2/Sec 1): 2023		
Nitrogen Dioxide (NO2)		33.1	80	μg	/m³	IS 5182 (Part 6): 2017		
Particulate Matter (size le than 10 µm) or PM10	ess 86		100	μg,	/m³	IS 5182 (Part 23): 2017		
Particulate Matter (size less 50 than 2.5µm) or PM2.5		60	μg,	/m³	CPC8 Guideline, Volume 1,36/2012-13, Page No.15:2013			
Lead (as Pb)	(L	BLQ OQ:0.02)	1	μg,	/m³	EPA/625/R-96/010 a Compet 1999	ndium Method 10-3.1 6 3.2. Jun:	
Carbon Monoxide (CO)		1.42	4	mg	/m ³	CPC8 Guidelines, Volume II, 37	/2012-13. Page no 16: 2013	
	nmonia (NH3) 40.4			µg,		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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1601

Calibration Certificate No.: CC342223000001514F

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/24/539	1 Report No. A	A/03/24/5391	Re	eport	Date	16/03/2024	
Name and address of Customer	Mumbai Internatio Chhatrapati Shivaji I 1st Floor, Terminal 1 Mumbai-400099,Mal	Maharaj Internationa -B, Santacruz(E),	al Airpor	t,			
Sampling done by	Laboratory		Sa	mple	Description / Type	Ambient Air	
Sampling Location	MLCP Santacruz (T1))	Da	ate - S	Sampling	11/03/2024 to 12/03/202	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder			ate - F	Receipt of Sample	13/03/2024	
Sampling Procedure	As per method refere	ence	Da	ate - S	tart of Analysis	13/03/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023			ate - C	Completion of Analysis	16/03/2024	
	Meteorologi	cal Data / Envi	ronme	enta	I Conditions		
Average Wind Velocity 11.7 km/h	Wind Direction S-N	Relative Humic (Max./Min.): 77		(Temperature (Max./Min.): 33/24°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Uni	Unit		Method	
Chemical Testing; Grou	p: Atmospheric Pollu	ution					
Sulphur Dioxide (SO2)	8.3	80	µg/n	n ³	IS 5182 (Part 2/Sec 1): 2023		
Nitrogen Dioxide (NO2)	. 30.2	80	µg/n	n 3	1S 5182 (Part 6): 2017		
Particulate Matter (size le than 10 µm) or PM10	ess 73	100	µg/n	n ³	IS 5182 (Part 23): 2017		
Particulate Matter (size le than 2.5µm) or PM2.5	rticulate Matter (size less 32		µ9/п	n ³	CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013		
Lead (as Pb)	BLQ (LOQ:0.0	BLQ 1 4 (LOQ:0.02)		µg/m³ EPA/625/R-96/010 a Compe 1999		ndium Method ID-3.1 & 3.2, Jun:	
Carbon Monoxide (CO)	1.02	4	mg/n	n ³	CPCB Guidelines, Volume II, 37	/2012-13, Page no.16: 2013	
Ammonia (NH3)	BLQ (LOQ:20	400	µg/m	n ³	CPCB Guidelines, Volume 1,367	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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1602

Calibration Certificate No.: CC342223000001517F

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

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Sample ID : AA/03/24/5391	Report No. AA/03/24/5391	Report Date	16/03/2024
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/24/5392	Report No. AA/03/24/5392	Report Date	16/03/2024	
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Air 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	rport,		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air	
Sampling Location	OWC Kurla	Date - Sampling	11/03/2024 to 12/03/2024	
	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	13/03/2024	
Sampling Procedure	As per method reference	Date - Start of Analysis	13/03/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/03/2024	

	Meteorologica	l Data / Env	ironment	tal Conditions			
Average Wind Velocity 12.4 km/h	Wind Direction	Relative Hum (Max./Min.): 7		Temperature (Max./Min.): 32/27°C	Duration of Survey 24 h		
Parameter	Result	NAAQS# 2009	Unit		lethod		
Chemical Testing; Group:	Atmospheric Polluti	on					
Sulphur Dioxide (SO2)	14.2	80	µg/m³	IS 5182 (Part 2/Sec I): 2023			
Nitrogen Dioxide (NO2)	35.2	80	µg/m³	IS 5182 (Part 6): 2017	IS 5182 (Part 6): 2017		
Particulate Matter (size less than 10 µm) or PM10	89	100	µg/m³	IS 5182 (Part 23): 2017			
Particulate Matter (size less than 2.5µm) or PM2.5	5 52	60	µg/m³	CPCB Guideline, Volume 1,36/201	2-13, Page No.15:2013		
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999			
Carbon Monoxide (CO)	1.66	4	mg/m ³	CPCB Guidelines, Volume II, 37/2	012-13, Page no.16: 2013		
Ammonia (NH3)	42.6	400	µg/m³	CPCB Guidelines, Valume 1.36/20	CPCB Suidelines, 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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Sampling Equipment ID: AEC/EQ/1603

Calibration Certificate No.: CC342223000001520F

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



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/24/539	3 Repo	ort No. AA/0	3/24/5393		Report	Date		16/	03/2024	
Name and address of Customer	Chhatrapati	Shivaji Mah erminal 1-B,	I Airport Ltd. haraj Internation Santacruz(E), ashtra	al Air	port,					
Sampling done by	Laboratory	aboratory				Description	/ Type	Am	bient Air	
Sampling Location	Sarvodaya H	lopital (Gha	tkopar)		Date - S	Sampling		11/	03/2024 to 12/03/202	
Sample Quantity / Packing	PM2.5: 1 x 1 SO2, NO2: 3 NH3: 10 ml	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder				Date - Receipt of Sample			03/2024	
Sampling Procedure	As per meth	per method reference				Date - Start of Analysis			13/03/2024	
Order Reference	Work Order No. 5700330185 dated 22.08.2023				Date - Completion of Analysis			16/03/2024		
	Meteo	rological	Data / Envi	ron	menta	I Conditi	ons			
Average Wind Velocity 11.1 km/h	Wind Dir S-N		Relative Humi (Max./Min.): 77		Temperature (Max./Min.): 32/27°C				Duration of Survey 24 h	
Parameter	15 11	Result	NAAQS# 2009	1	Unit	Method			bod	
Chemical Testing; Grou	p: Atmosphe	ric Pollutio								
Sulphur Dioxide (SO2)		10.7	80	μ	g/m³	IS 5182 (Part 2/Sec 1): 2023				
Nitrogen Dioxide (NO2)		28.4	80	μ	g/m³	IS 5182 (Part 6): 2017				
Particulate Matter (size le than 10 µm) or PM10	ess	77	100	μ	g/m³	IS 5182 (Part	IS 5182 (Part 23): 2017			
Particulate Matter (size less 36 than 2.5µm) or PM2.5		60	μ	g/m³	CPC8 Guideline, Volume 1,36/2012-13, Page No.15:2013					
Lead (as Pb)	(1	BLQ LOQ:0.02)	1	μ	g/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 1999				
Carbon Monoxide (CO)		1.32	4	m	g/m ³	CPCB Guidelin	ies, Volume II, 37	7/2012-1	3. Page no. 16: 2013	
Ammonia (NH3)		38.3	400	U	q/m ³	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, PM2.5, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

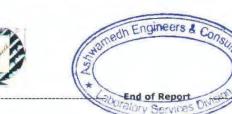
Sampling Equipment ID: AEC/EQ/1604

Calibration Certificate No.: CC342223000001528F

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



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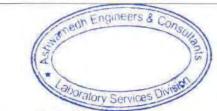


	NOISE LEVEL MEASUREM	IENT REPORT	
Sample ID: N/10/23/6199	Report No N/10/23/6199N Report		25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description Type	DG Noise Insertion Loss
Order Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023
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

NOTSELEVEL MEASUREMENT REPORT

Sr No	for second	1	So	und Level dB	(A) Fast Respo	nse	Difference
	Location	Time (h)	A	Inside	B	Outside	
DG I Utili	ity T-2 (3000 KV	(A)			-		
1	East	11:00	A1	86.3	B1	60.1	26.2
2	West	11:05	A2	88.7	B2	61.8	29.9
3	South	11:10	A3	93.5	В3	67.1	26.4
4	North	11:20	A4	90.8	B4	65.5	25.3
			Average	89.82	Average	63.62	26.2

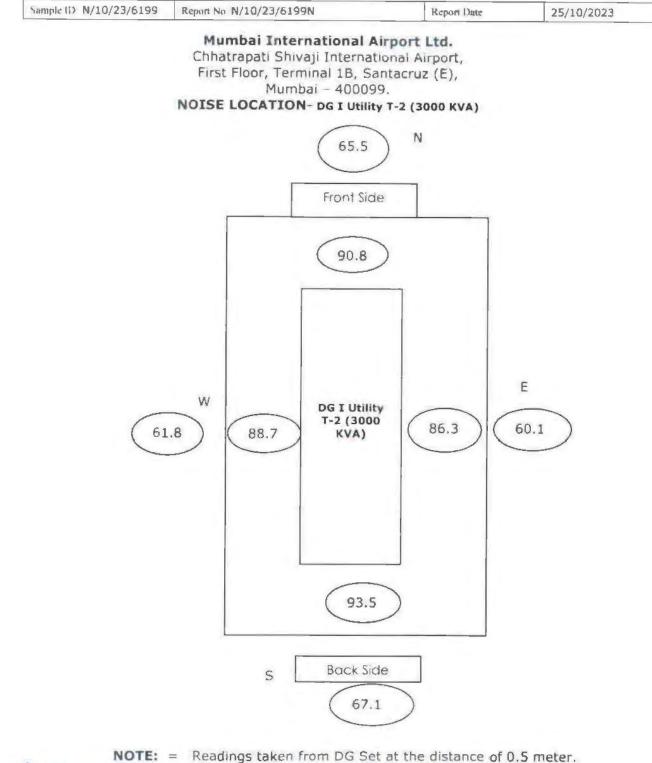
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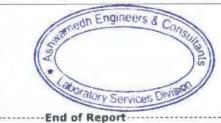
	NOISE LEVEL MEASUREP	ILITI KEPOKI	
Sample ID N/10/23/6200	Report No. N/10/23/6200N	Report Date	25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Set VI Noise Insertion
Order Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023
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

NOTSE LEVEL MEASUREMENT REPORT

Sr No		Time (h)	Sound Level dB (A) Fast Response				Difference
	Location		A	Inside	В	Outside	Difference
DG II Util	ity T-2 (3000 K	VA)					
1	East	11:00	A1	87.5	B1	61.8	26.7
2	West	11:05	A2	93.1	B2	67.7	25.4
3	South	11:10	A3	95.6	B3	69.3	26.3
4	North	11:20	A4	98.2	B4	71.4	26.8
			Average	93.6	Average	67.55	26.3

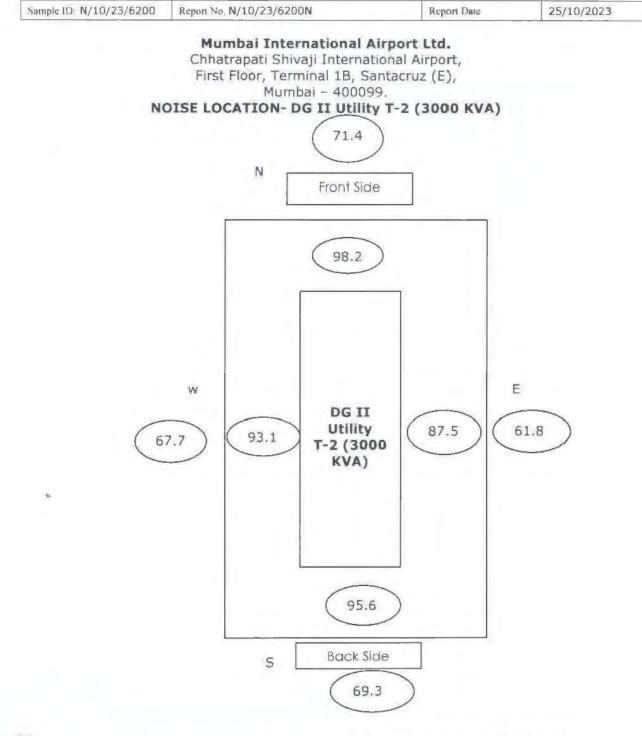
e: Standards as

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NOTE: = Readings taken from DG Set at the distance of 0.5 meter.

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	NOISE LEVEL MEASUREP	IENT REPORT	
Sample ID: N/10/23/6201	Report No. N/10/23/6201N Report		25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpi First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description Type	DG Noise Insertion Loss
Under Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	ate. 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date Sr No 13.05.2022		2016083645

NOTSELEVEL MEASUREMENT REPORT

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				
	Location		A	Inside	в	Outside	Difference
DG III Ut	ility T-2 (3000	KVA)					
1	East	11:00	Al	89.6	B1	63.9	25.7
2	West	11:05	A2	92.3	B2	66.2	26.1
3	South	11:10	A3	94.1	63	66.8	27.3
4	North	11:20	A4	97.7	B4	71.3	26.4
			Average	93.42	Average	67.05	26.37

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



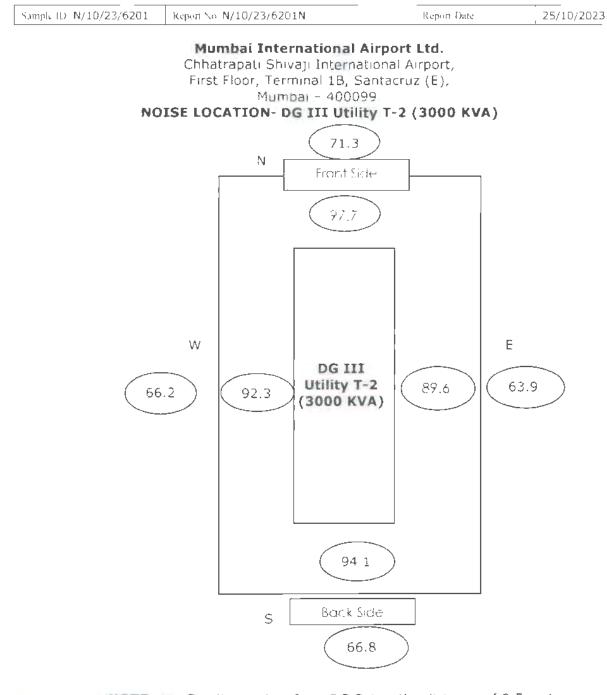
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---End of Report-----



Page No 1 of 2





NOTE: = Readings taken from DG Set at the distance of 0.5 meler.

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ALC F REP 1-0 Page 2 of 7



	NOISE LEVEL MEASUREN	MENT REPOR	T
Nample ID N/10/23/6202	Report No. N/10/23/6202N	Report Da	e 25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (I Mumbai - 400099	port,	
Monstoring Done By	Laboratory	Sample Description Type	DG Noise Insertion Loss
Order Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023
Calibration Certificate	AEC/0722/5M-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No	2016083645

	· · · · · · · · · · · · · · · · · · ·	Time (b)	So	und Level dB	(A) Fast Respo	nse	Difference
Sr No	Location	Time (h)	A	Inside	В	Outside	Difference
DG IV L	Jtility T-2 (3000	KVA)					
1	East	11:00	AI	90.9	81	65	25.9
2	West	11:05	A2	94.7	B2	68.4	26.3
3	South	11:10	A3	99.2	B3	74.1	25.1
4	North	11:20	A4	96.5	B4	71.2	25.3
			Average	95.32	Average	69.67	25.65

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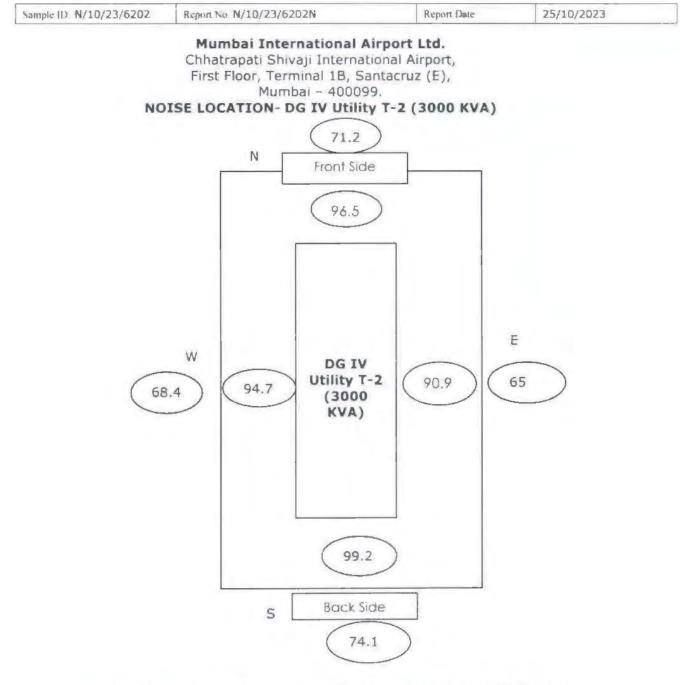
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-End of Report--







NOTE: = Readings taken from DG Set at the distance of 0.5 meter.

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AEC F.REP 1-G Page 2 of 2



	NOISE LEVEL MEASUREM	IENT REPORT	
Sample ID N/10/23/6203	Report No N/10/23/6203N	Report Date	25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpi First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description	DG Noise Insertion Loss
Order Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023
Calibration Certificate	AEC/0722/SM-3	EC/0722/SM-3 Instrument Model	
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr No	2016083645

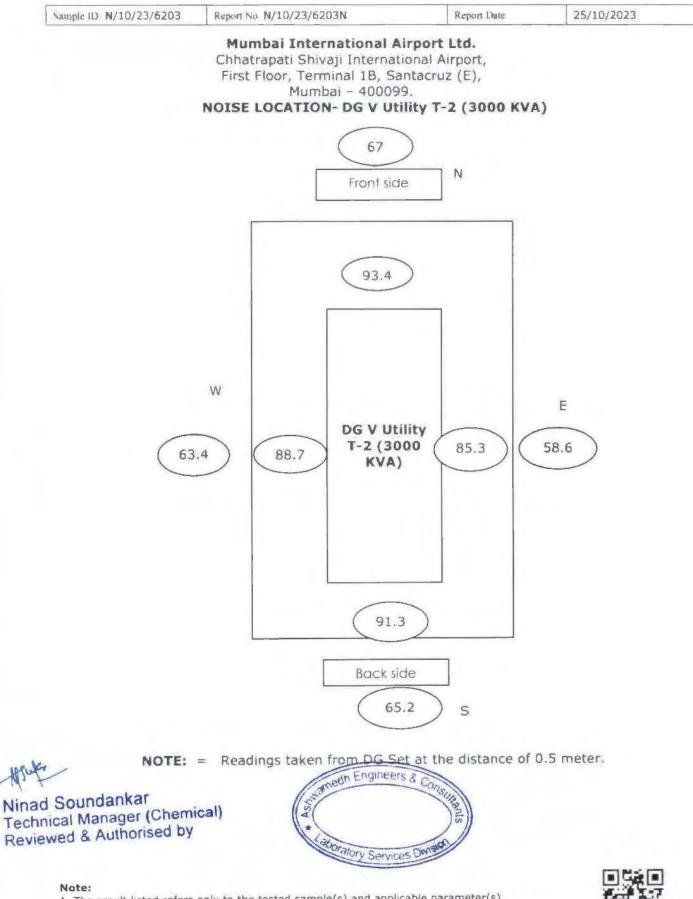
NOISE LEVEL	MEASUREMEN	REPORT
1		r

	1 a section	Time (b)	Sou	und Level dB	(A) Fast Respo	nse	Difference
Sr No	Location	Time (h)	A	Inside	В	Outside	Difference
DG V Utili	ty T-2 (3000 K)	/A)					
1	East	11:00	Al	85.3	81	58.6	26.7
2	West	11:05	A2	88.7	B2	63.4	25.3
3	South	11:10	A3	91.3	B 3	65.2	26.1
4	North	11:20	A4	93.4	B4	67	26.4
			Average	89.67	Average	63.55	26.12









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AEC'F REP 1-G Page 2 nf 2



	NOISE LEVEL MEASUREM	IENT REPORT			
Sample ID N/10/23/6204	/6204 Report No N/10/23/6204N		ID N/10/23/6204 Report No N/10/23/6204N Report I		25/10/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Monitoring Done By	Laboratory	Sample Description	DG Noise Insertion Loss		
Order Reference	Work Order No. 5700330185 Date- 22.08.2023	Date-Monitoring	19/10/2023		
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		

-	1 in cast of the	Time (b)	So	und Level dB	(A) Fast Respo	nse	Difference
Sr No	Location	Time (h)	A	Inside	В	Outside	Dimerence
DG VI Uti	lity T-2 (3000 K	(VA)					
1	East	11:00	A1	87.5	B1	61.3	26.2
2	West	11:05	A2	91.3	B2	63.9	27.4
3	South	11:10	A3	95.6	B3	68.5	27.1
4	North	11:20	A4	90.8	B4	64.1	26.1
			Average	91.3	Average	64.45	26.7

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



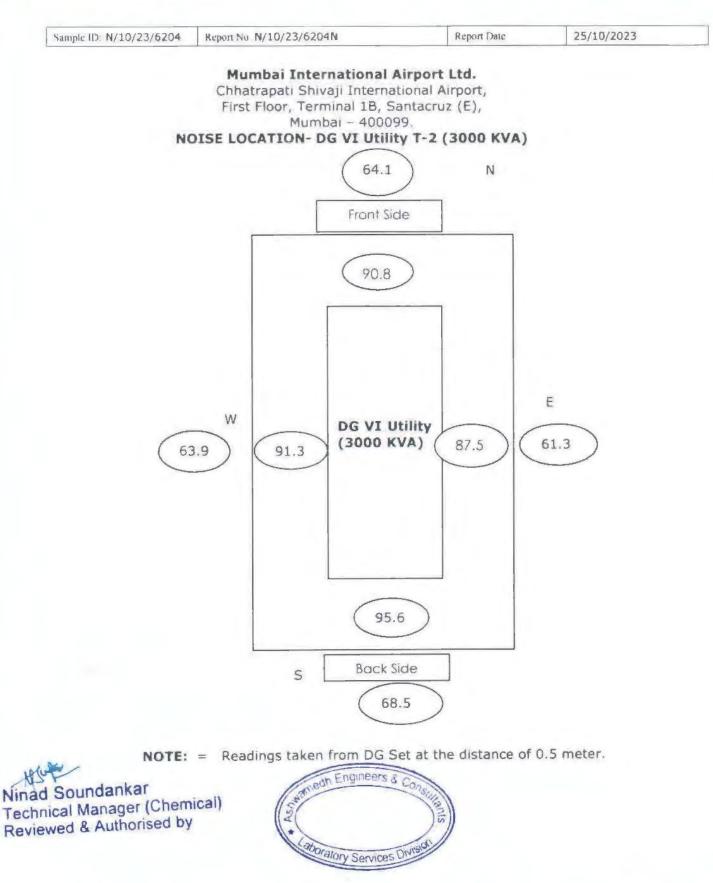
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-----End of Report-----







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AEC/F/REP/1-G Puge 2 of 2





STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5804	Report	No. SA/10/23/58	804 Re	eport Date		25/10/2023		
Name and address of Customer	Chhatrapati 1st Floor, Te	ternational Airp Shivaji Maharaj I arminal 1-B, Santa 1099, Maharashtra	nternational Airpo acruz(E),	urt,				
Sampling done by	Laboratory			Sample Description / Type		Stack Emission		
Sample Quantity / Packing		PM: 1 x 1 no. thimble				19/10/2023		
		x 1 no. plastic bo x 1 no. plastic bo		Date - Receipt of	Sample	20/10/2023		
Sampling Procedure		IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005			nalysis	20/10/2023		
Order Reference		Work Order No. 5700330185 dated			n of Analysis	24/10/2023		
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	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 Conser			Method		
Chemical Testing; Group	Atmospher	ic Pollution						
Flue Gas Temperature		138		°C	IS 11255 (Part 3) 2008			
Flue Gas Velocity		13.06	-	m/s	IS 11255 (Part 3) 2008			
Flue Gas Flow Rate		6537	-	Nm ³ /h	IS 11255 (Part 3) 2008			
Particulate Matter (PM)		26	150	mg/Nm ³	IS 11255 (Part 1) 15	985		
Sulphur Dioxide (SO2)		25.7	Not specifie	d mg/Nm ³	IS 11255 (Part 2) 1	985		
C 1 1 D 1 100 1	4	Not specifie	d kg/d	IS 11255 (Part 2) I	985			
Sulphur Dioxide (SO2)	Oxides of Nitrogen (NOz)							

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Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023

Consent Number & Date: Format 1.0/CAC/UAN NO. (2205000810 Date 13.05.2022 0111260 Eng eers

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STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5805		Report No	5. SA/10/23/58	305	Report Date		25/10/2023	
Name and address of Customer	Chha 1st I	atrapati Sh Floor, Term	national Airp ivaji Maharaj I inal 1-B, Santa 9,Maharashtra	nternational Airp acruz(E),	port,			
Sampling done by	Labo	oratory			Sample Descript	tion / Type	Stack Emission	
Sample Quantity / Packing		1 x 1 no. t			Date - Sampling		19/10/2023	
			no. plastic bo no. plastic bo		Date - Receipt o	f Sample	20/10/2023	
Sampling Procedure			1):1985, (Part (Part 7):2005	t 2):1985,	Date - Start of A	nalysis	20/10/2023	
Order Reference	Worl		. 5700330185	dated	Date - Completio	on of Analysis	24/10/2023	
Stack Details								
~ Stack Identity			DG 2					
~ Stack attached to		DG Set-2 Utili	ity T-2 (3000 KV	A)				
~ Material of construction			M.S.					
~ Stack height above groun	d leve	1	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 po MPCB Conse			Method	
Chemical Testing; Group	: Atm	ospheric I	Pollution					
Flue Gas Temperature			120	-	°C	18 11255 (Part 3)		
Flue Gas Velocity			13.27	•	m/s	IS 11255 (Part 3) 2008		
Flue Gas Flow Rate			6947	-	Nm³/h	IS 11255 (Part 3):2008		
Particulate Matter (PM)			23	150	mg/Nm ³	IS 11255 (Pert I):	985	
Sulphur Dioxide (SO2)			18.6	Not specif	ed mg/Nm ³	IS 11255 (Part 2)	1985	
Sulphur Dioxide (SO2)			3.1	Not specif	ed kg/d	IS 11255 (Part 2)	1985	
Oxides of Nitrogen (NO2)			29.4	Not specif	ed mg/Nm ³	IS 11255 (Part 7).	2005	
Sampling Equipment ID: A	EC/EO	/1611						

Sampling Equipment ID: AEC/EQ/1611

Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31,12,2023

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/220500081() Date 13.05.2022

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STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5806	5 1	Report No. SA/10/23/58	806 Re	eport Date		25/10/2023			
Name and address of Customer	Chhatr 1st Flo	ai International Airp apati Shivaji Maharaj I or, Terminal 1-B, Santa ai-400099,Maharashtra	nternational Airpo acruz(E),	irt,					
Sampling done by		aboratory Sample Description / Type		ion / Type	Stack Emission				
Sample Quantity / Packing	PM: 1	x 1 no. thimble		Date - Sampling		19/10/2023			
		10 ml x 1 no. plastic bo 25 ml x 1 no. plastic bo		Date - Receipt of	Sample	20/10/2023			
Sampling Procedure		55 (Part 1):1985, (Part 1):2008, (Part 7):2005	t 2):1985,	Date - Start of Ar	alysis	20/10/2023			
Order Reference	-	Order No. 5700330185	dated	Date - Completio	m of Analysis	24/10/2023			
Stack Details									
~ Stack Identity		DG 3	DG 3						
~ Stack attached to	DG Set-3 Util	ty T-2 (3000 KVA)						
~ Material of construction		M.S.	M.S.						
~ Stack height above grour	nd 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 Conser			Method			
Chemical Testing; Group	: Atmos	spheric Pollution							
Flue Gas Temperature		135	-	°C	IS 11255 (Part 3):				
Flue Gas Velocity		14.38	-	m/s	IS 11255 (Part 3) 2008				
Flue Gas Flow Rate		7090	•	Nm³/h	IS 11255 (Part 3)	2008			
Particulate Matter (PM)		28	150	mg/Nm ³	IS 11255 (Part 1) 1985				
Sulphur Dioxide (SO2)		24.3	Not specifie	d mg/Nm ³	IS 11255 (Part 2)	1985			
Sulphur Dioxide (SO2)		4.1	Not specifie	d kg/d	IS 11255 (Part 2)	1985			
Oxides of Nitrogen (NO2)		32.7	Not specifie	d mg/Nm ³	JS 11255 (Part 7)	200S			
Sampling Equipment ID: A	EC/EO/1	611							

Sampling Equipment ID: AEC/EQ/1611

Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023

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STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5807	Report	No. SA/10/23/58	107 Re	eport Date		25/10/2023		
Name and address of Customer	Chhatrapati : 1st Floor, Tel	ernational Airp Shivaji Maharaj li minal 1-B, Santa 099,Maharashtra	nternational Airpo acruz(E),	ort,				
Sampling done by	Laboratory			Sample Descripti	on / Type	Stack Emission		
Sample Quantity / Packing	PM: 1 x 1 no	PM: 1 x 1 no. thimble				19/10/2023		
		1 no. plastic bol (1 no. plastic bol)		Date - Receipt of	Sample	20/10/2023		
Sampling Procedure		art 1):1985, (Part 8, (Part 7):2005	t 2):1985,	Date - Start of An	alysis	20/10/2023		
Order Reference	1	No. 5700330185	dated	Date - Completio	n of Analysis	24/10/2023		
Stack Details								
~ Stack Identity		DG 4						
~ Stack attached to	DG Set-4 Util	ity T-2 (3000 KVA)					
~ Material of construction	M.S.							
~ Stack height above groun	nd 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 pe MPCB Conse			Method		
Chemical Testing; Grou	: Atmospher	ic Pollution						
Flue Gas Temperature		131	-	°C	IS 11255 (Part 3)			
Flue Gas Velocity		14.80	-	m/s	IS 11255 (Part 3) 2008			
Flue Gas Flow Rate		7370	*	Nm ³ /h	IS 11255 (Part 3)			
Particulate Matter (PM)		27	150	mg/Nm ³	IS 11255 (Part 1).			
Sulphur Dioxide (SO2)		21.4	Not specifie	ed mg/Nm ³	18 11255 (Part 2)	1985		
Sulphur Dioxide (SO2)		3.8	Not specifie	ed kg/d	IS 11255 (Part 2)	1985		
Oxides of Nitrogen (NO2)		31.1	Not specifie	ed mg/Nm ³	IS 11255 (Part 7)	.2005		

Sampling Equipment ID: AEC/EQ/1611

Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023 Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022



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STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5808	Report	No. SA/10/23/58	808 Re	eport Date		25/10/2023		
Name and address of Customer	Chhatrapati S 1st Floor, Ter	ernational Airp Shivaji Maharaj I minal 1-B, Santa 099,Maharashtra	nternational Airpo acruz(E),	ort,				
Sampling done by	Laboratory	aboratory		Sample Descript	on / Type	Stack Emission		
Sample Quantity / Packing	PM: 1 x 1 no. thimble			Date - Sampling		19/10/2023		
		1 no. plastic bo 1 no. plastic bo		Date - Receipt of	Sample	20/10/2023		
Sampling Procedure		IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005			nalysis	20/10/2023		
Order Reference	Work Order N 22.08.2023	vo. 5700330185	dated	Date - Completio	n of Analysis	24/10/2023		
Stack Details								
~ Stack Identity		DG 5						
~ Stack attached to	DG Set-5 Util	ty T-2 (3000 KVA)					
~ Material of construction		M.S.						
~ Stack height above groun	d levei	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 Conser			Method		
Chemical Testing; Group	: Atmospheri	c Pollution						
Flue Gas Temperature		125	-	°C	IS 11255 (Part 3).			
Flue Gas Velocity		13.49	-	m/s	IS 11255 (Part 3)	2008		
Flue Gas Flow Rate		6974	-	Nm³/h	IS 11255 (Part 3) 2008			
Particulate Matter (PM)		25	150	mg/Nm ³	18 11255 (Part 1) 1985			
Sulphur Dioxide (SO2)		22.9	Not specifie	d mg/Nm ³	IS 11255 (Part 2) 1	985		
Sulphur Dioxide (SO2)		3.8	Not specifie	d kg/d	IS 11255 (Part 2))	985		
Oxides of Nitrogen (NO2)		34.4	Not specifie	d mg/Nm ³	IS 11255 (Part 7)	2005		

Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023

Consent Number & Date: Format 1.0/CAC/UAN NO 2205000810 Date 13.05.2022 0000111260/SR Engineers & Cons

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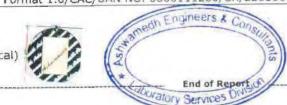
STACK EMISSION MONITORING REPORT

Sample ID : SA/10/23/5809 Report N		Report No. SA/10/23/	5809	Report	Date		25/10/2023	
Name and address of Customer	Chhai 1st Fl	bai International Ai trapati Shivaji Mahara loor, Terminal 1-B, Sai bai-400099,Maharashi	j International Antacruz(E),	irport,				
Sampling done by		boratory Sample Description / Type		on / Type	Stack Emission			
Sample Quantity / Packing	x 1 no. thimble	x 1 no. thimble		e - Sampling		19/10/2023		
		30 ml x 1 no. plastic 25 ml x 1 no. plastic		Dat	Date - Receipt of Sample		20/10/2023	
Sampling Procedure		11255 (Part 1):1985, (Part 2):1985, rt 3):2008, (Part 7):2005			Date - Start of Analysis		20/10/2023	
Order Reference		Order No. 570033018 3.2023	r No. 5700330185 dated Date - Completion of Analysis					
Stack Details								
~ Stack Identity	DG 6							
~ Stack attached to	DG Set-6 U	DG Set-6 Utility T-2 (3000 KVA)						
~ Material of construction	M.S.							
~ Stack height above grour	31 m	31 m						
~ Stack diameter		0.50 m	0.50 m					
~ Stack shape at top		Round	Round					
~ Type of Fuel		HSD	HSD					
~ Fuel Consumption		330 L/h						
Parameter		Result	Limits as MPCB Con		Unit		Method	
Chemical Testing; Group	p: Atmo	spheric Pollution		_	r	in lines in the	5558	
Flue Gas Temperature		123	-		°C	IS 11255 (Part 3)	0.11	
Flue Gas Velocity		14.40	-		m/s	IS 11255 (Part 3).		
Flue Gas Flow Rate		7483	-		Nm³/h	IS 11255 (Part 3)		
Particulate Matter (PM)		32	15		mg/Nm ³	IS 11255 (Part 1) 1		
Sulphur Dioxide (SO2)		25.7	Not spe		mg/Nm ³	IS 11255 (Part 2)		
Sulphur Dioxide (SO2)		4.6	Not spe		kg/d	IS 11255 (Part 2)	1985	
Oxides of Nitrogen (NO2)		27.6	Not spe	ecified	mg/Nm ³	IS 11255 (Part 7)	2005	
Sampling Equipment ID: A	AEC/EQ/	1611						

Sampling Equipment ID: AEC/EQ/1611 Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023 Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022



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TEST REPORT

Sample ID : E/10/23/5100	Report No. E/10/23/5100	Report Date	24/10/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio Ist Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	1
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	17/10/2023
ample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023

ir.No.	Parameter	Result	Unit	Method	
Chem	ical Testing; Group: Pollution & Enviro	onment			
Physi	cal & Chemical Parameters				
1	pH (at 25°C)	7.1	-	IS 3025 (Part II) (983	
2	Total Suspended Solids	83	mg/L	IS 3025 (Part 17) 1984	
3	Biochemical Oxygen Demand (3 days, 27°C)	164	mg/L	IS 3025 (Part 44) 1993	
4	Chemical Oxygen Demand	480	mg/L	APHA, 23rd Ed., 5720-6, 5-IB	
5	Ammonical Nitrogen (as NH3-N)	22.4	mg/L	APHA, 23rd Ed 4500 NH3, 8 6 C 4 -114 +-116	
Biolog	gical Testing; Group: Pollution & Envir	onment			
Bacte	riological Parameters				
6	Faecal Coliforms	280	MPN Index /100 ml	APHA, 23rd Ed., 9221 E, 9-77, 2017	

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TEST REPORT

Sample ID : E/10/23/5100	Report No. E/10/23/5100N	Report Date	24/10/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	17/10/2023
Sample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Test	ing; Group: Pollution & Env	ironment		
1 Total N	itrogen (as N)	23.6	mg/L	APHA, 73rd Ed. 4500 N.B4-108 2017

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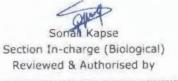






TEST REPORT

		Chhatra 1st Floo Mumbai	i Internation pati Shivaji Ma r, Terminal 1-B -400099,Mahar	haraj Internatio				
	у							
Sampling Locati	ampling done by Labora		aboratory		Sample Description / Type		Treated Sewage Effluent	
	Sampling Location Termin		I 1 STP RO Out	let	Date - Samp	oling	17/10/2023	
Sample Quantity	/ Packing		no. plastic can x 1 no. sterile f	Bottle	Date - Receipt of Sample		18/10/2023	
Sampling Procee	ling Procedure IS 3025 (Part 1):1987, Amds.1 & Date - Start of Analysis APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		18/10/2023					
		Work O	Order No. 5700330185 dated 2023		Date - Completion of Analys		is 23/10/2023	
r.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method	
Chemical Test	ting; Group: Po	Ilution & I	Environment					
Physical & Ch	emical Parame	ters						
1 pH (at 2)	5°C)		7.3	5.5	5-9.0 -		IS 3025 (Part II)-1983	
2 Total Sus	spended Solids		6	Not to e	exceed 20	mg/L	IS 3025 (Part 17):1984	
3 Biochem (3 days,	ical Oxygen Den 27°C)	nand	5	Not to e	exceed 10	mg/L	IS 3025 (Part 44):1993	
	l Oxygen Deman	nd	17	Not to e	exceed 50	mg/L	APHA, 23rd Ed., 5220-8, 5-18	
5 Ammonie	cal Nitrogen (as	NH3-N)	1.68	Not to	exceed 5	mg/L	APHA, 22rd Ed., 4500 NH3, F. 4, 119	
Biological Tes	ting; Group: Po	ollution &	Environment					
Bacteriologica	I Parameters							
6 Faecal C	oliforms		32	Less t	han 100	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77-2017	
	ber & Date: Form ID E/10/23/510						2	









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TEST REPORT

Sample ID : E/10/23/5101 Rep.		Report No. E/10/23/5	Report No. E/10/23/5101N Report Date 24/10/2023					
Name and ad Customer	dress of	Mumbai Internation Chhatrapati Shivaji M. 1st Floor, Terminal 1- Mumbai-400099,Maha	onal Airport,					
Sampling dur	done by Laboratory Sample Description / Type		Treated Sewage Effluent					
Sampling Loc	ation	Terminal 1 STP RO Ou	itlet	Date - Sampling		17/10/2023		
Sample Quan	tity / Packing	2 L X 1 no. plastic car 250 ml x 1 no. sterile		Date - Receipt of Sample		Date - Receipt of Sample 18/10/2		18/10/2023
Sampling Pro	cedure	IS 3025 (Part 1):1987 APHA 23rd Ed. 2017,1 9060 A, 9-36, & 9060 19458:2006	060 B, 1-40,			18/10/2023		
Order Referen	ace	Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		s 23/10/2023		
ir.No.	Parameter	Result	Limits as Con	per MPCB sent	Unit	Method		
Chemical Te	esting; Group: Po	liution & Environment						
1 Total M	Nitrogen (as N)	5.6	Not to e	exceed 10	mg/L	APHA, 23rd Ed., 4500 N.84-108 (2017		

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TEST REPORT

Sample ID : E/10/23/5102	Report No. E/10/23/5102	Report Date	24/10/2023		
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent		
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	17/10/2023		
Sample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023		
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023		
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023		

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	onment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.67	-	IS 3025 (Part II) (983
2	Total Suspended Solids	90	mg/L	IS 3025 (Part 17) 1984
3	Biochemical Oxygen Demand (3 days, 27°C)	168	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	520	mg/L	APHA, 23rd Ed. 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	30.2	mg/L	APHA 23rd Ed. 4500 NH3, B & C. 4 -114, 4-116
Biolog	gical Testing; Group: Pollution & Envir	onment		
Bacte	riological Parameters			
6	Faecal Coliforms	220	MPN Index /100 ml	APHA 23rd Ed. 9221 E. 9-77 2017



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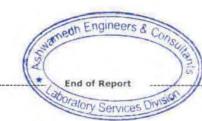


TEST REPORT

Sample ID : E/10/23/5102	Report No. E/10/23/5102N	Report Date	24/10/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	17/10/2023
Sample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Tes	ting; Group: Pollution & Env	ironment	() · · · · · · · · · · · · · · · · · ·	
1 Total I	litrogen (as N)	35.4	mg/L	APHA, 73rd Ed., 4500 N.64-108-2017





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TEST REPORT

Samp	le ID : E/10/23/5103	No. E/10/23/51	03	Report Dat	e	1	4/10/2023		
	stomer Chhatrapati			al Airport Ltd haraj Internati 6, Santacruz(E) rashtra	onal Airport,	6			
Samp	ling done by	Laborat	Laboratory		Sample Description / Type			Treated Sewage Effluent	
Sampling Location Termi		Termina	ninal 2 STP RO Outlet		Date - Sampling		17/10/2023		
Sampl	e Quantity / Packing		no. plastic can x 1 no. sterile f	Bottle	Date - Rece	Date - Receipt of Sample Date - Start of Analysis		18/10/2023	
Sampl	ing Procedure	APHA 2	5 (Part 1):1987, 3rd Ed. 2017,10 . 9-36, & 9060 2006	060 B, 1-40,	Date - Start				
Order	Order Reference Work (22.08.		Order No. 5700330185 dated .2023		Date - Completion of Analys		sis 2	3/10/2023	
ir.No.	Parameter		Result Limits as p Conse				Method		
	ical Testing; Group: Po		Environment				-		
Physi 1	cal & Chemical Parame pH (at 25°C)	ters	8.2			<u> </u>	10 202		
2	Total Suspended Solids		12		-9.0	- IS 3025 (Part II) (9)			
3	Biochemical Oxygen Den (3 days, 27°C)	nand	4		xceed 20 xceed 10	mg/L mg/L		5 (Part 17):1584 5 (Part 44):1993	
4	Chemical Oxygen Demar	br	13	Not to e	xceed 50 mg/L		APHA ;	73rd Ed. 5220-8 5-18	
5	Ammonical Nitrogen (as NH3-N)		2.2	Not to exceed 5				APHA 23rd Ed. 4500 NH3 F 4 119	
Biolog	gical Testing; Group: P	ollution &	Environment						
Bacte	riological Parameters							-	
6	Faecal Coliforms		40	Less th	nan 100	MPN Index /100 ml	APHA. 2	'3rd Ed., 9221-E, 9-77: 2017	
	ent Number & Date: Forn : Sample ID E/10/23/510					Date 13.05.202	2		





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TEST REPORT

Sample ID : E/10/23/5103	mple ID : E/10/23/5103 Report No. E/10/23/5103N			Report Date		24/10/2023
Name and address of Customer	Chhat 1st Flo	oai Internation rapati Shivaji Ma oor, Terminal 1-E ai-400099,Maha	haraj Internati 3, Santacruz(E)	onal Airport,		
Sampling done by	ne by Laboratory Sample Description / Type				Treated Sewage Effluent	
Sampling Location	Termi	nal 2 STP RO Out	tlet	Date - Sampling		17/10/2023
Sample Quantity / Packing		1 no. plastic can Il x 1 no. sterile		Date - Receipt of Sample		18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & Date - Start of Analysis APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		18/10/2023			
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		5 23/10/2023
ir.No. Paramete	r	Result	Limits as Con		Unit	Method
Chemical Testing; Group:	Pollution &	Environment				
1 Total Nitrogen (as N)		4.7	Not to e	xceed 10	mg/L	APHA 23rd Ed. 4500 N 84-108 2017



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TEST REPORT

Sample ID : E/10/23/5104	Report No. E/10/23/5104	Report Date	24/10/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Ist Floor, Terminal 1-B, Santacruz(E). Mumbai-400099, Maharashtra	onal Airport,	,
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location Cargo STP Inlet		Date -Sampling	17/10/2023
Sample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	onment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	9.2	-	IS 3025 (Part II) 1983
2	Total Suspended Solids	96	mg/L	IS 3025 (Part 17) 1984
3	Biochemical Oxygen Demand (3 days, 27°C)	167	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	500	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH3-N)	23.5	mg/L	APHA, 23rd Ed. 4500 NH3, 8 8 C. 4-114, 4-116
Biolog	gical Testing; Group: Pollution & Envir	onment		
Bacte	riological Parameters			
6	Faecal Coliforms	220	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Note: Sample ID E/10/23/5104 bears two Test Reports - E/10/23/5104 and E/10/23/5104N



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TEST REPORT

Sample ID : E/10/23/5104	Report No. E/10/23/5104N	Report Date	24/10/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio Ist Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	1.
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	17/10/2023
Sample Quantity / Packing 2 L X 1 no. plastic can 250 ml x 1 no. sterile Bottle		Date - Receipt of sample	18/10/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	18/10/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	23/10/2023

ir.No.	Parameter	Result	Unit	Method		
Chemical Tes	ting; Group: Pollution & Env	ironment				
1 Total I	vitrogen (as N)	28.8	mg/L	APHA, 23rd Ed., 4500 N 84-108-2017		



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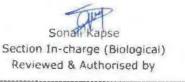






TEST REPORT

Samp	ample ID : E/10/23/5105 Report .		lo. E/10/23/51	.05	Report Dat	e		24/10/2023
Customer Chhatr 1st Flo			pati Shivaji Ma	al Airport Ltd haraj Internati 3, Santacruz(E) rashtra	onal Airport,			
Sampling done by Labo		Laborato	Laboratory		Sample De	Sample Description / Type		Treated Sewage Effluent
Sampling Location Carg		Cargo S	TP Outlet		Date - Sam	pling		17/10/2023
Samp	le Quantity / Packing	Quantity / Packing 2 L X 1 no. plastic can Date - Receipt of Sample 250 ml x 1 no. sterile Bottle Date - Receipt of Sample			18/10/2023			
Samp	ling Procedure	g Procedure IS 3025 (Part 1):1987, Amds.1 & Date - Start of Analysis APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006 19458:2006		18/10/2023				
		Work On 22.08.20	Order No. 5700330185 dated .2023		Date - Completion of Analys		sis 23/10/2023	
ir.No.			Result	Limits as per MPCB Consent		Unit	Method	
Chem	nical Testing; Group: Po	ilution & E	nvironment					
Physi	ical & Chemical Parame	ters						
1	pH (at 25°C)		7.5	5.5	-9.0		15 3025 (Part II) 1983	
2	Total Suspended Solids		15	Not to e	xceed 20	mg/L	13 3025 (Part 17) 1984	
3	Biochemical Oxygen Den (3 days, 27°C)	nand	5	Not to e	xceed 10	mg/L	IS	3025 (Part 44) 1993
4	Chemical Oxygen Deman	nd	19	Not to e	xceed 50	mg/L APH		HA. Z3rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N) 1.8 No		Not to e	Not to exceed 5		APHA, 23rd Ed., 4500 NH3 F. 4 115		
Biolog	gical Testing; Group: Po	ollution & E	nvironment					
Bacte	riological Parameters						_	
6	Faecal Coliforms		40	Less th	an 100	MPN Index /100 ml	AP	HA. 23rd Fd., 9221-E. 9-77, 7017
Cons Note	ent Number & Date: Form ; Sample ID E/10/23/510	nat 1.0/CAC, 5 bears two	UAN NO. 0000 Test Reports -	0111260/CR/22 E/10/23/5105	205000810 [and E/10/2	Date 13.05.202 3/5105N	2	









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TEST REPORT

Sample ID : E/10/23/51	05 Repo	Report No. E/10/23/5105N		Report Date		24/10/2023
Name and address of Customer	Chha 1st F	i bai Internation trapati Shivaji Ma loor, Terminal 1-B bai-400099,Mahai	haraj Internatio , Santacruz(E)	onal Airport,		
Sampling done by	apling done by Laboratory Sample Description / Type		Treated Sewage Effluent			
Sampling Location	Cargo	o STP Outlet		Date - Sampling		17/10/2023
Sample Quantity / Packi	ample Quantity / Packing 2 L X 1 no. plastic can Date - Receipt of Sam 250 ml x 1 no. sterile Bottle		t of Sample	18/10/2023		
Sampling Procedure	APHA 9060	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		Date - Start of Analysis		18/10/2023
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		is 23/10/2023
šr.No. Para	meter	Result	Limits as Con	per MPCB sent	Unit	Method
Chemical Testing; G	oup: Pollution	& Environment				
1 Total Nitrogen (a	s N)	5.2	Not to e	exceed 10	mg/L	APHA. 23rd Ed., 4500 N.84-108:2017



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TEST REPORT

Sample ID : E/11/23/5013	Report No. E/11/23/5013	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-1 STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle		Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	8.5	-	IS 3025 (Part II) 1983
2	Total Suspended Solids	94	mg/L	IS 3025 (Part 17) 1984
3	Biochemical Oxygen Demand (3 days, 27°C)	171	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	500	mg/L	APHA, 23rd Ed. 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	23.5	mg/L	APHA, 23rd Ed., 4500 NH3, B & C. 4 -114, 4-116
Biolo	gical Testing; Group: Pollution & Envir	onment		
Bacte	riological Parameters			
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

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AEC/F/REP/1-A

Page 1 of 1



TEST REPORT

Sample ID : E/11/23/5013	Report No. E/11/23/5013N	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	1
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-1 STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle		Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

r.No.	Parameter	Result	Unit	Method
Chemical Te	sting; Group: Pollution & Envi	ironment		
1 Total	Nitrogen (as N)	25.7	mg/L	APHA, 23rd Ed, 4500 N B4-108 2017

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TEST REPORT

Name		Sample ID : E/11/23/5014 Report 1							
Custor	and address of mer	Chhatra 1st Floo	pati Shivaji Ma	al Airport Ltd haraj Internati 3, Santacruz(E) rashtra	onal Airport,				
Sampling done by Labora		Laborate	oratory S		Sample Des	scription / Type		Treated Sewage Effluent	
Sampl	ing Location	Termina	-1 STP RO Ou	tlet	Date - Sam	pling		08/11/2023	
Sample	e Quantity / Packing		no. plastic can x 1 No. Sterile	Bottie	Date - Rece	ipt of Sample		09/11/2023	
Sampl	IS 3025 (Part 1):1987, Amds.1 & Date - Start of Analysis APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006 19458:2006			09/11/2023					
		Work Or 22.08.20	der No. 57003 023	30185 dated Date - Com		upletion of Analysis		13/11/2023	
r.No.	Parameter		Result	Limits as p Cons		Unit		Method	
Chem	ical Testing; Group: Po	ilution & E	invironment						
Physic	cal & Chemical Parame	ters					-		
1	pH (at 25°C)		7.54	5.5	-9.0	-	15.3	025 (Part II) 1983	
2	Total Suspended Solids		11	Not to e	xceed 20	mg/L	15 3025 (Part 17) (984		
	Biochemical Oxygen Dem (3 days, 27°C)	hand	5	Not to e	xceed 10	mg/L	IS 3025 (Part 44) 1993		
4	Chemical Oxygen Deman	id	17	Not to e	xceed 50	mg/L	APHA 23rd Ed. 5220-8, 5-18		
5	Ammonical Nitrogen (as	nonical Nitrogen (as NH3-N) 1.66 Not to e		exceed 5 mg/L		APHA 23rd Ed., 4500 NH3 F. 4, 119			
Biolog	ical Testing; Group: Po	ollution & I	Environment			• • • •			
Bacter	riological Parameters								
	Faecal Coliforms		34	-	an 100	MPN Index /100 ml		A 23rd Ed_ S22 1-E 9-77 2017	
	ent Number & Date: Form Sample ID E/11/23/501					Date 13.05.202	2		





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TEST REPORT

Sample ID : E/11/23/5014		Report No. E/11/23/5014N Report Date 14/11/202					14/11/2023	
Name and address of Customer				onal Airport,				
Sampling done by		Laboratory		Sample Description / Type		Treated Sewage Effluent		
Sampling Location To		Terminal-1 STP	RO Out	let	Date - Samp	ling	08/11/2023	
Sample Quantity / Pac	antity / Packing 2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle		Bottle	Date - Receipt of Sample		09/11/2023		
Sampling Procedure		IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006			Date - Start of Analysis		09/11/2023	
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		13/11/2023		
Sr.No. Par	ameter	Res	ult	Limits as p Cons		Unit	Method	
Chemical Testing; (Group: Pollu	tion & Environm	nent					
	Total Nitrogen (as N)		6	Not to a	xceed 10	mg/L	APHA, 23rd Ed., 4500 N.B4-108 2017	

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TEST REPORT

Sample ID : E/11/23/5015	Report No. E/11/23/5015	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	anal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-2 STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle	Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	onment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.92	-	IS 3025 (Pact II) 1983
2	Total Suspended Solids	102	mg/L	IS 3025 (Part 17) 1984
3	Biochemical Oxygen Demand (3 days, 27°C)	199	mg/L	1\$ 3025 (Part 44) 1993
4	Chemical Oxygen Demand	580	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	31.4	mg/L	APHA. 23rd Ed_ 4500 NH3. B 6 C. 4 -114. 4-116
Biolog	gical Testing; Group: Pollution & Envir	onment		
Bacte	riological Parameters			
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

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AEC/F/REP/1-A



sales@ashwamedh.net +91-253-2392225

TEST REPORT

Sample ID : E/11/23/5015	Report No. E/11/23/5015N	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-2 STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing	2 L x 1 πο. plastic can 250 ml x 1 No. Sterile Bottle	Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

ir.No.	Parameter	Result	Unit	Method
Chemical	Testing; Group: Pollution & Env	ironment		
1 Tot	al Nitrogen (as N)	38.2	2 mg/L APHA 23rd Ed_4	



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TEST REPORT

Samp	nple ID : E/11/23/5016 Repor		lo. E/11/23/50	D. E/11/23/5016 Report Da		e		14/11/2023
	Customer Chhat 1st Fl		pati Shivaji Ma	al Airport Ltd aharaj Internati 3, Santacruz(E) irashtra	onal Airport,			
Sampling done by Labora		Laborato	Laboratory		Sample De	scription / Type		Treated Sewage Effluent
Samp	ling Location	Terminal	-2 STP RO Ou	tlet	Date - Sam	pling		08/11/2023
			x 1 no. plastic can) ml x 1 No. Sterile Bottle		Date - Rece	ipt of Sample		09/11/2023
Sampling Procedure		APHA 23 9060 A,	3025 (Part 1):1987, Amds.1 & HA 23rd Ed. 2017,1060 B, 1-40, 50 A, 9-36, & 9060 B, 9-39 & ISO \$58:2006		Date - Start of Analysis			09/11/2023
		Work Ord 22.08.20	Order No. 5700330185 dated 3.2023		Date - Completion of Analysis		sis	13/11/2023
ir.No.	Parameter		Result Limits as p Cons		per MPCB Unit sent		Method	
Chem	nical Testing; Group: Po	ollution & Er	nvironment					
Physi	ical & Chemical Parame	eters					_	
1	pH (at 25°C)		7.74	5.5	5.5-9.0		IS	3075 (Part II) 1983
2	Total Suspended Solids		14	Not to e	Not to exceed 20		IS 3025 (Part 17) 1984	
3	Biochemical Oxygen Den (3 days, 27°C)	nand	3	Not to e	Not to exceed 10		IS 3025 (Part 44) 1993	
4	Chemical Oxygen Demar	hd	10	Not to e	xceed 50	mg/L APHA 23		HA 23rd Ed. 5220-8 5-18
5	Ammonical Nitrogen (as	NH3-N)	2.3	Not to exceed 5		mg/L	APHA, 23rd Ed., 4500 NH3, F. 4 11	
	gical Testing; Group: P	ollution & E	nvironment			· · · · · ·		
Bacte	riological Parameters							
6	Faecal Coliforms		32	Less th	an 100	MPN Index /100 ml	AP	HA. 23rd Ed., 9221-E. 9-77, 2017
Cons	ent Number & Date: Forn : Sample ID E/11/23/501	nat 1.0/CAC/ .6 bears two	UAN NO. 000 Test Reports	0111260/CR/22 - E/11/23/5016	205000810 I and E/11/2	Date 13.05.202	2	

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TEST REPORT

Sample ID : E/11/23/5016		Report No. E/11/23/5016N				14/11/202	3
Name and address of Customer	Chha 1st F	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra					
Sampling done by Laboratory		Sample Description / Type		Treated Se Effluent	wage		
Sampling Location	mpling Location Terminal-2 STP RO Outlet		Date - Sampl	ling	08/11/202	3	
Sample Quantity / Packing		2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle		Date - Receipt of Sample		09/11/202	3
Sampling Procedure	ampling Procedure IS 3025 (Part 1):1987, APHA 23rd Ed. 2017,10 9060 A, 9-36, & 9060 19458:2006		060 B, 1-40,	Date - Start of Analysis		09/11/202	3
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		sis 13/11/202	3
r.No. Parame	ter	Result	Limits as Cons		Unit	Metho	bd
Chemical Testing; Grou	p: Pollution I	Environment					
1 Total Nitrogen (as M	1)	5.2	Not to e	exceed 10	mg/L	APHA, 23rd Ed., 4500 M	R4-108-2017



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TEST REPORT

Sample ID : E/11/23/5017	Report No. E/11/23/5017	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacru2(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle	Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	8.3	-	IS 3025 (Part II) (983
2	Total Suspended Solids	88	mg/L	IS 3025 (Part 17) (384
3	Biochemical Oxygen Demand (3 days, 27°C)	165	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	520	mg/L	APHA, 23rd Ed., 5220-6, 5-18
5	Ammonical Nitrogen (as NH3-N)	25.8	mg/L	APHA 23rd Ed. 4500 NH3 B 6 C 4-114 4-116
Biolo	gical Testing; Group: Pollution & Envir	onment		
Bacte	riological Parameters			
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 9221 E, 9-77, 2017

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TEST REPORT

Sample ID : E/11/23/5017	Report No. E/11/23/5017N	Report Date	14/11/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio Ist Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	08/11/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 No. Sterile Bottle	Date - Receipt of sample	09/11/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	09/11/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	13/11/2023

-	
4500 N.B4-108 2017	



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TEST REPORT

Sample	ple ID : E/11/23/5018 Report		No. E/11/23/50	18	Report Date		14/11/2023
	Stomer Chhatr 1st Flo		i Internationa pati Shivaji Mal r, Terminal 1-B -400099,Mahar	haraj Internatio , Santacruz(E)	onal Airport,		
Sampling done by Labora		Laborate	ory		Sample Des	cription / Type	Treated Sewage Effluent
Sampling Location Cargo		Cargo S	TP Outlet		Date - Samp	oling	08/11/2023
			no. plastic can x 1 No. Sterile	Bottle	Date - Rece	ipt of Sample	09/11/2023
Sampl			025 (Part 1):1987, Amds.1 & A 23rd Ed. 2017,1060 B, 1-40, A A, 9-36, & 9060 B, 9-39 & ISO 8:2006		Date - Start of Analysis		09/11/2023
		Work O	Order No. 5700330185 dated 2023		Date - Completion of Analysis		is 13/11/2023
r.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chem	ical Testing; Group: Po	llution &	Environment				
Physi	cal & Chemical Parame	ters					
1	pH (at 25°C)		7.66	5.5	-9.0	-	IS 3025 (Part II) 1983
2	Total Suspended Solids		9	Not to e	exceed 20	mg/L	IS 3025 (Part 17) (984
3	Biochemical Oxygen Dem (3 days, 27°C)	and	4	Not to e	exceed 10	mg/L	IS 3025 (Part 44) 1993
-		d	14	Not to e	exceed 50	mg/L	APHA 23rd Ed. 5220-8 5-18
4	Chemical Oxygen Deman	-	ogen (as NH3-N) 2.26 Not to		-		And the start shake store a start
	Chemical Oxygen Deman Ammonical Nitrogen (as I		2.26	Not to	exceed 5	mg/L	APHA 23rd Ed. 4500 NH3 F 4 119
4		NH3-N)		Not to	exceed 5	mg/L	APHA 23rd Ed. 4500 NH3 F 4 119
4 5 Biolog	Ammonical Nitrogen (as I	NH3-N)		Not to	exceed 5	mg/L	APHA 23rd Ed. 4500 NH3 F 4 119







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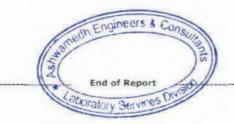


TEST REPORT

Sample ID : E/11/23/5018	Report No. E/11/23/5018N		Report Date		14/11/2023		
Name and address of Customer	Chhatr 1st Flor	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra					
Sampling done by Labo		Laboratory		Sample Description / Type		Treated Sewage Effluent	
ampling Location Cargo STP Ou		STP Outlet	P Outlet		ing	08/11/2023	
Sample Quantity / Packing	2 L x 1 no. plastic 250 ml x 1 No. Ste		Bottle	Date - Receipt of Sample		09/11/2023	
Sampling Procedure	APHA 2 9060 A	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006			of Analysis	09/11/2023	
Order Reference		Work Order No. 5700330185 dated 22.08.2023			letion of Analysis	13/11/2023	
No. Parameter		Result	Limits as per MPCB Consent		Unit	Method	
Chemical Testing; Group: P	ollution &	Environment					
1 Total Nitrogen (as N)		5 Not to exc		xceed 10	mg/L	APHA 23rd Ld. 4500 N.84-108 2017	



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Page 1 of 1

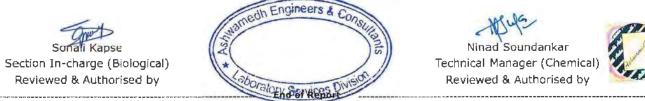




TEST REPORT

Sample ID : E/12/23/5120	Report No. E/12/23/5120	Report No. E/12/23/5120 Report Date 02/01/20						
Name and address of	Mumbai International Airport Ltd.	Mumbai International Airport Ltd.						
Customer	Chhatrapati Shivaji Maharaj Internatio	onal Airport,						
	1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra						
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent					
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	27/12/2023					
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023					
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023					
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024					

Sr.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution Environm	ment		
Physi	cal & Chemical Parameters			-
1	pH (at 25°C)	8.8	-	IS 3025 (Part II):1983
2	Total Suspended Solids	90	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	160	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	480	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NHa-N)	22.4	mg/L	APHA, 23rd Ed., 4500 NH3, B & C. 4 -114, 4-116
Biolog	gical Testing; Group: Pollution Environ	ment	· <u>-</u> · · · ·	
Bacte	riological Parameters			-
6	Faecal Coliforms	220	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77: 2017
Conse	nt Number & Date: Format 1.0/CAC/UAN N	NO. 0000111260/CR/	2205000810 Date	13.05.2022
Note:	Sample ID E/12/23/5120 bears two Test R	teports - E/12/23/51	20 and E/12/23/51	20N



Note:

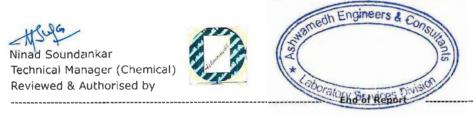
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Sample ID : E/12/23/5120	Report No. E/12/23/5120N	Report Date	02/01/2024					
Name and address of	Mumbai International Airport Ltd.	Mumbai International Airport Ltd.						
Customer	Chhatrapati Shivaji Maharaj Internatio	onal Airport,						
	1st Floor, Terminal 1-B, Santacruz(E),							
	Mumbai-100099, Maharashtra							
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent					
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	27/12/2023					
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023					
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023					
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024					

Sr.No.	Parameter	Result	Unit	Method					
Chemical Testing; Group: Pollution Environment									
1	Total Nitrogen (as N)	26.8 mg/L APHA, 23rd Ed.,		APHA, 23rd Ed., 4500 N.84-108:2017					
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022									
Note:	Note: Sample ID E/12/23/5120 bears two Test Reports - E/12/23/5120 and E/12/23/5120N								



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TEST REPORT

Sampl	e ID : E/12/23/5121	Report N	No. E/12/23/512	21	Report Date	a ,	02/01/2024	
Name Custor	and address of ner	Chhatra 1st Floo	i Internationa pati Shivaji Mał r, Terminal 1-B -400099,Mahar	haraj Internatio , Santacruz(E)	onal Airport,			
Sampl	ing done by	Laborato	ory		Sample Des	cription / Type	Treated Sewage Effluent	
Sampl	ing Location	Termina	I 1 STP RO Out	let	Date - Samp	oling	27/12/2023	
Sampl	e Quantity / Packing	1	no. plastic can x 1 no. Sterile l	bottle	Date - Recei	ipt of Sample	28/12/2023	
Sampl	ing Procedure	APHA 23	3025 (Part 1): 1987, Amds.1 & Date - Start of Analysis HA 23rd Ed. 2017,1060 B, 1-40, 50 A, 9-36, & 9060 B, 9-39 & ISO		28/12/2023			
Order	Reference	Work Or 22.08.20	der No. 570033 023	30185 dated	Date - Comp	pletion of Analys	is 01/01/2024	
Sr.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method	
Chem	ical Testing; Group: Pol	lution En	vironment					
Physi	cal & Chemical Paramet	ers						
1	pH (at 25°C)		7.6	5.5	5-9.0	-	IS 3025 (Part 11):1983	
2	Total Suspended Solids		14	Not to e	exceed 20	mg/L	IS 3025 (Part 17):1984	
3	Biochemical Oxygen Dem (3 days, 27°C)	and	2	Not to e	exceed 10 mg/L		IS 3025 (Part 44):1993	
4	Chemical Oxygen Demand	d	9	Not to e	exceed 50	mg/L	APHA, 23rd Ed., 5220-8, 5-18	
5	Ammonical Nitrogen (as N	NH3-N)	1.8	Not to	exceed 5 mg/L		APHA, 23rd Ed., 4500 NH3, F. 4 -119	
Phile Let	gical Testing; Group: Po	llution En	vironment					
RI010								
	riological Parameters					MPN Index	APHA, 23rd Ed., 9221-E, 9-77; 2017	
	Faecal Coliforms		32	Less t	han 100	/100 ml	APMA. 23F0 Ed., 3221-E, 9-77: 2017	

Sonali Kapse Section In-charge (Biological) Reviewed & Authorised by



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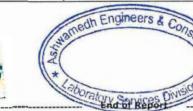


TEST REPORT

Sample ID : E/12/23	/12/23/5121 Report No. E/12/23/5121N				Report Date		02/01/2024
Name and address of Customer		Chhatra 1st Flor	ai Internationa apati Shivaji Mal or, Terminal 1-B ii-400099,Mahar	haraj Internatio , Santacruz(E)	onal Airport,		
Sampling done by		Laborat	tory		Sample Desc	ription / Type	Treated Sewage Effluent
Sampling Location		Termin	al 1 STP RO Out	let	Date - Sampl	ing	27/12/2023
Sample Quantity / Pa	ample Quantity / Packing 2 L x 1 no. plastic can Date - Receipt of Sample 250 ml x 1 no. Sterile bottle				28/12/2023		
Sampling Procedure		IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006			Date - Start of Analysis		. 28/12/2023
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		is 01/01/2024	
Sr.No. P	arameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chemical Testing;	Group: Pol	lution Er	vironment	1			
1 Total Nitroge	n (as N)	4.2 Not to exce			exceed 10	mg/L	APHA, 23rd Ed., 4500 N,84-108:2017



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Note:

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5509

Sample ID : E/12/23/5122	Report No. E/12/23/5122	Report No. E/12/23/5122 Report Date 02/0			
Name and address of	Mumbai International Airport Ltd.	·			
Customer	Chhatrapati Shivaji Maharaj Internatio	onal Airport,			
	1st Floor, Terminal 1-B, Santacruz(E),	,			
	Mumbai-400099, Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent		
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	27/12/2023		
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023		
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023		
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024		

Sr.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution Environ	ment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.84	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	108	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	206	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	600	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	34.7	mg/L	APHA, 23rd Ed., 4500 NH3, B & C. 4 -114, 4-116
Biolog	gical Testing; Group: Pollution Enviror	nment		
Bacte	riological Parameters			
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77: 2017
Conse	nt Number & Date: Format 1.0/CAC/UAN I	NO. 0000111260/CR/	2205000810 Date	13.05.2022
Note:	Sample ID E/12/23/5122 bears two Test F	Reports - E/12/23/512	22 and E/12/23/51	22N



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TEST REPORT

Sample ID : E/12/23/5122	Report No. E/12/23/5122N	Report Date	02/01/2024
Name and address of	Mumbai International Airport Ltd.	· · · · · · · · · · · · · · · · · · ·	
Customer	Chhatrapati Shivaji Maharaj Internatio	onal Airport,	
	1st Floor, Terminal 1-B, Santacruz(E),	,	
	Mumbai-400099,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	27/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024

Sr.No.	Parameter	Result	Unit	Method					
Chemical Testing; Group: Pollution Environment									
1	Total Nitrogen (as N)	35.4	mg/L	APHA, 23rd Ed., 4500 N,84-108:2017					
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022									
Note:	Sample ID E/12/23/5122 bears two Test Rep	orts - E/12/23/5122	and E/12/23/51	L22N					





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5509

Sample	e ID : E/12/23/5123 Report		No. E/12/23/512	23 Report Date			02/01/2024
Customer Chhat 1st Flo			ai International apati Shivaji Mahi or, Terminal 1-B, ai-400099,Mahara	araj Internati Santacruz(E)	onal Airport,		
Sampl	ing done by	Labora	itory		Sample Des	cription / Type	Treated Sewage Effluent
Sampl	ing Location	Termin	al 2 STP RO Outle	et	Date - Samp	oling	27/12/2023
Sampl	e Quantity / Packing	1	l no. plastic can l x 1 no. Sterile bi	ottle	Date - Recei	pt of Sample	28/12/2023
Sampl	Ing Procedure IS 3025 (Part 1):1987, Amds.1 & Date - Start of Analysis APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006 Date - Start of Analysis		28/12/2023				
			: Order No. 5700330185 dated 8.2023		Date - Completion of Analysis		is 01/01/2024
ir.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chem	nical Testing; Group: Poll	ution E	nvironment			·	
Physi	ical & Chemical Paramete	ers					
1	pH (at 25°C)		7.82	5.5	5-9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids		15	Not to e	exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Dema (3 days, 27°C)	and	5	Not to e	exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand		18	Not to e	exceed 50	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as N	H3-N)	2.8	Not to	Not to exceed 5 mg/L		APHA, 23rd Ed., 4500 NH3, F, 4 - 119
Biolo	gical Testing; Group: Pol	lution E	Invironment				
Bacte	eriological Parameters						
6	Faecal Coliforms		40	Less t	han 100	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77: 2017
Cons	sent Number & Date: Forma	at 1.0/C	AC/UAN NO. 0000	111260/CR/2	205000810 (· · · · · · · · · · · · · · · · · · ·	2





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Sample ID : E/12/23/5123 Report		rt No. E/12/23/5123N		Report Date		02/01/2024
Name and address of Customer	Chhati 1st Flo	pai International rapati Shivaji Mah por, Terminal 1-B, ai-400099,Mahara	araj Internati Santacruz(E)	onal Airport,		
Sampling done by	Labora	atory		Sample Dese	eription / Type	Treated Sewage Effluent
Sampling Location	Termir	al 2 STP RO Outle	et	Date - Samp	ling	27/12/2023
Sample Quantity / Packing		L no. plastic can I x 1 no. Sterile be	ottle	Date - Receipt of Sample		28/12/2023
Sampling Procedure	APHA 9060 /	5 3025 (Part 1):1987, Amds.1 & PHA 23rd Ed. 2017,1060 B, 1-40, 060 A, 9-36, & 9060 B, 9-39 & ISO 9458:2006		Date - Start of Analysis		28/12/2023
Order Reference		/ork Order No. 5700330185 dated		Date - Completion of Analysis		s 01/01/2024
Sr.No. Parameter	I	Result	1	Limits as per MPCB Consent		Method
Chemical Testing; Group: P	ollution E	nvironment	1		L	
1 Total Nitrogen (as N)		5.8	Not to e	exceed 10	mg/L	APHA, 23rd Ed., 4500 N.84-108:2017
Consent Number & Date: For Note: Sample ID E/12/23/51		-				2



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TEST REPORT

Sample ID : E/12/23/5124	Report No. E/12/23/5124	Report Date	02/01/2024
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	27/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution Environm	nent		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	8	-	IS 3025 (Part II):1983
2	Total Suspended Solids	96	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	186	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	540	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	29.1	mg/L	APHA, 23rd Ed., 4500 NH3. B & C. 4 -114. 4-116
Biolo	gical Testing; Group: Pollution Environ	ment		
Bacte	riological Parameters			
6	Faecal Coliforms	220	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77: 2017

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Sample ID : E/12/23/5124	Report No. E/12/23/5124N	Report Date	02/01/2024
Name and address of	Mumbai International Airport Ltd.		·
Customer	Chhatrapati Shivaji Maharaj Internatio	onal Airport,	
	1st Floor, Terminal 1-B, Santacruz(E),	,	
	Mumbai-400099, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	27/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	28/12/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	28/12/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	01/01/2024

Sr.No.	Parameter	Result	Unit	Method				
Chemical Testing; Group: Pollution Environment								
1	Total Nitrogen (as N)	30	mg/L	APHA, Z3rd Ed., 4500 N.B4-108:2017				
Conse	nt Number & Date: Format 1.0/CAC/UAN N	NO. 0000111260/CR/2	205000810 Date	2 13.05.2022				
Note:	Sample ID E/12/23/5124 bears two Test R	eports - E/12/23/5124	and E/12/23/5	124N				



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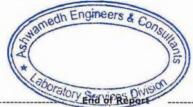




509

Sampl	nple ID : E/12/23/5125 Report		No. E/12/23/512	12/23/5125 Report Date			02/01/2024	
Name Custoi	and address of mer	Chhatr 1st Flo	a i Internationa rapati Shivaji Mah or, Terminal 1-B, ai-400099,Mahar	naraj Internatio , Santacruz(E)	onal Airport,			
Sampl	ling done by	Labora	itory		Sample Des	cription / Type	Treated Sewage Effluent	
Sampl	ing Location	Cargo	STP Outlet		Date - Samp	ling	27/12/2023	
Sampl	le Quantity / Packing	1	l no. plastic can l x 1 no. Sterile t	oottle	Date - Recei	pt of Sample	28/12/2023	
Sampling Procedure IS 3 APH 9060		APHA	5 (Part 1):1987, 23rd Ed. 2017,10 A, 9-36, & 9060 E :2006)60 B, 1-40,	mds.1 & Date - Start of Anal 0 B, 1-40,		28/12/2023	
Order	Reference	Work (Drder No. 570033 2023	30185 dated	Date - Comp	oletion of Analys	is 01/01/2024	
Sr.No.			Result	Limits as per MPCB Consent		Unit	Method	
Chem	nical Testing; Group: Poll	ution E	nvironment	1				
Physi	ical & Chemical Paramet	ers						
1	pH (at 25°C)		7.73	5.5-9.0		-	IS 3025 (Part II):1983	
2	Total Suspended Solids		15	Not to e	exceed 20	mg/L	IS 3025 (Part 17):1984	
3	Biochemical Oxygen Dema (3 days, 27°C)	and	4	Not to e	exceed 10	mg/L	IS 3025 (Part 44):1993	
4	Chemical Oxygen Demand		17	Not to e	exceed 50	mg/L	APHA, 23rd 5d., 5220-8, 5-18	
5	Ammonical Nitrogen (as N	H3-N)	2.1	Not to	exceed 5 mg/L		APHA, 23rd Ed., 4500 NH3, F. 4 -11	
Biolo	gical Testing; Group: Pol	lution E	Invironment					
Bacte	eriological Parameters							
	Faecal Coliforms		40	Less t	han 100	MPN Index	APHA, 23rd Ed., 9221-E, 9-77-2017	
6	raecal contentis					/100 ml		

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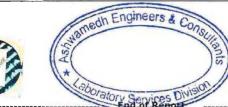




Sample ID : E/12/23/5125 Report		ort No. E/12/23/5125N		Report Date		02/01/2024
Name and address of Customer	Chhat 1st Flo	pai International rapati Shivaji Maha por, Terminal 1-B, ai-400099,Mahara	araj Internati Santacruz(E)	onal Airport,		
Sampling done by		atory		Sample Desc	cription / Type	Treated Sewage Effluent
Sampling Location	Cargo	STP Outlet		Date - Samp	ling	27/12/2023
		2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of Sample		28/12/2023
Al 90		IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		Date - Start of Analysis		28/12/2023
Order Reference	Work (Drder No. 5700330 2023	0185 dated	Dale - Comp	letion of Analy	rsis 01/01/2024
Sr.No. Parametei	 •	Result	Limits as Con	per MPCB sent	Unit	Method
Chemical Testing; Group:	Pollution E	nvironment	,		· · · · ·	
1 Total Nitrogen (as N)		4.6	Not to exceed 10		mg/L	APHA, 23rd Ed., 4500 N.84-108.2017
Consent Number & Date: Fo Note: Sample ID E/12/23/5						22



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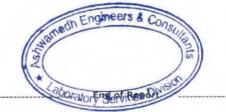
TEST REPORT

Sample ID : E/01/24/5039	Report No. E/01/24/5039	Report Date	16/01/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-1 STP Inlet	Date -Sampling	10/01/2024
Sample Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of sample	11/01/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	11/01/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	15/01/2024

Parameter	Result	Unit	Method
cal Testing; Group: Pollution & Enviro	nment		
al & Chemical Parameters			
pH (at 25°C)	9	-	IS 3025 (Part II): 2017
Total Suspended Solids	84	mg/L	IS 3025 (Part 17) Amds I: 2017
Biochemical Oxygen Demand (3 days, 27°C)	153	mg/L	IS 3025 (Part 44) 1993
Chemical Oxygen Demand	460	mg/L	APHA.24th Ed., 5220, 8, 544: 2023
Ammonical Nitrogen (as NH3-N)	24.6	mg/L	APHA,24th Ed.,4500- NH3,8 & C.424 & 425: 2023
Total Nitrogen (as N)	30.2	mg/L	APHA,24th Ed.,4500,A,415: 2023
ical Testing; Group: Environment & Po	ollution		
iological Parameters			
Faecal Coliforms	208	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023
1	cal Testing; Group: Pollution & Enviro al & Chemical Parameters pH (at 25°C) Total Suspended Solids Biochemical Oxygen Demand (3 days, 27°C) Chemical Oxygen Demand Ammonical Nitrogen (as NH3-N) Total Nitrogen (as N) ical Testing; Group: Environment & Pol iological Parameters	cal Testing; Group: Pollution & Environmental & Chemical ParameterspH (at 25°C)9Total Suspended SolidsBiochemical Oxygen Demand(3 days, 27°C)Chemical Oxygen Demand460Ammonical Nitrogen (as NH3-N)24.6Total Nitrogen (as N)30.2Ical Testing; Group: Environment & Pollutioniological Parameters	cal Testing; Group: Pollution & Environmental & Chemical ParameterspH (at 25°C)9Total Suspended Solids84Biochemical Oxygen Demand153(3 days, 27°C)70Chemical Oxygen Demand460Ammonical Nitrogen (as NH3-N)24.6Total Nitrogen (as N)30.2Intersting; Group: Environment & Pollutioniological ParametersFaecal Coliforms208MPN Index

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Page 1 of 1





TEST REPORT

Samp	le ID : E/01/24/5040	No. E/01/24/50	40	Report Date	e	16/01/2024	
Name Custo	and address of mer	Chhatra 1st Floo	ai Internation apati Shivaji Ma or, Terminal 1-B ii-400099,Mahar	haraj Internat , Santacruz(E	ional Airport,		
Samp	ling done by	Laborat	lory		Sample Des	scription / Type	Treated Sewage Effluent
Samp	ling Location	Termina	al-1 STP RO Out	tlet	Date - Sam	pling	10/01/2024
Samp	le Quantity / Packing		no. plastic can x 1 no. Sterile l	bottle	Date - Rece	ipt of Sample	11/01/2024
Sampling Procedure APHA,			4th Ed.,2023, 1 , 1094, 9060 B, 2006	060 B, 44, & Date - Start of Analysis		11/01/2024	
			Order No. 5700330185 dated		Date - Completion of Analysis		is 15/01/2024
r.No.	Parameter		Result		per MPCB sent	Unit	Method
Сћеп	nical Testing; Group: Po	llution &	Environment	1			
Phys	ical & Chemical Parame	ters					
1	pH (at 25°C)		7.72	5.5-9.0		-	IS 3025 (Part II): 2017
2	Total Suspended Solids		12	Not to e	exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Dem (3 days, 27°C)	and	3	Not to exceed 10		mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Deman	d	11	Not to e	exceed 50	mg/L	APHA,24th Ed .5220.8.544: 2023
5	Ammonical Nitrogen (as	NH3-N)	1.5	Not to	exceed 5	mg/L	APHA 24th Ed.,4500- NH3, F.429, 2023
6	Total Nitrogen (as N) 4.9 No		Not to e	Not to exceed 10		APHA.24th Ed.,4500,A 415: 2023	
Biol	ogical Testing; Group: E	nvironme	ent & Pollution				
Bacte	eriological Parameters						
7	Faecal Coliforms		30	Less t	han 100	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142, 2023
Cone	sent Number & Date: Form	hat 1.0/CA	C/UAN NO. 000	0111260/CR/2	205000810	Date 13.05.202	2

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TEST REPORT

Sample ID : E/01/24/5041	Report No. E/01/24/5041	Report Date	16/01/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-2 STP Inlet	Date -Sampling	10/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	11/01/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	11/01/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	15/01/2024

Sr.No.	Parameter	Result	Unit	Method
Chem	nical Testing; Group: Pollution & Enviro	onment		
Physi	ical & Chemical Parameters			
1	pH (at 25°C)	6.92	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	101	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Demand [*] (3 days, 27°C)	193	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	580	mg/L	APHA,24th Ed.,5220,8,544, 2023
5	Ammonical Nitrogen (as NH3-N)	31.4	mg/L	APHA.24th Ed.,4500- NH3,8 & C.424 & 425: 2023
6	Total Nitrogen (as N)	39.3	mg/L	APHA.24th Ed.,4500,A.415: 2023
Biolog	gical Testing; Group: Environment & Po	ollution		
Bacte	riological Parameters			
7	Faecal Coliforms	262	MPN Index /100 ml	APHA, 24th Ed., 922I-E, 1142: 2023

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onsent Number & Date: Format 1.0/CAC/OAN NO. 0000111280/CR/2205000810 Date 13.05

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TEST REPORT

Samp	aple ID : E/01/24/5042 Report		t No. E/01/24/5042 Report Date		2	16/01/2024	
Customer Chhat 1st Fio		Chhatr 1st Flo	ai Internationa apati Shivaji Mal or, Terminal 1-B ai-400099,Mahar	haraj Internati , Santacruz(E)	onal Airport,		
Samp	ling done by	Labora	tory		Sample Des	cription / Type	Treated Sewage Effluent
Samp	ling Location	Termin	al-2 STP RO Out	let	Date - Samp	oling	10/01/2024
Samp	le Quantity / Packing		no. plastic can x 1 no. Sterile t	pottle	Date - Rece	pt of Sample	11/01/2024
90			A,24th Ed.,2023, 1060 B, 44, & A, 1094, 9060 B, 1097, ISO 8:2006		Date - Start of Analysis		11/01/2024
Order	Reference	Work C	order No. 570033 2023	30185 dated	Date - Com	pletion of Analys	is 15/01/2024
r.No.	Parameter		Result		per MPCB sent	Unit	Method
	nical Testing; Group: Po		Environment				
Phys	ical & Chemical Parame	ters					
1	pH (at 25°C)		7.8	5.5	5-9.0	-	IS 3025 (Part II): 2017
2	Total Suspended Solids		13	Not to e	exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Dem (3 days, 27°C)	and	4	Not to e	exceed 10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Deman	d	15	Not to e	exceed 50 mg/L		APHA.24th Ed.,5220.8,544, 2023
5	Ammonical Nitrogen (as	NH3-N)	2.4	Not to	exceed 5	mg/L	APHA.24th Ed.,4500- NH3, F.429, 2023
6	Total Nitrogen (as N) 5.2 Not to e		exceed 10 mg/L		APHA 24th Ed. 4500 A 415: 2023		
Biolo	gical Testing; Group: En	vironme	nt & Pollution				
Bacte	eriological Parameters						
7	Faecal Coliforms		44	Less t	han 100	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142, 2023
	sent Number & Date: Form			-1			





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TEST REPORT

Sample ID : E/01/24/5043	Report No. E/01/24/5043	Report Date	16/01/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	10/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	11/01/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	11/01/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	15/01/2024

Sr.No. Parameter Result Chemical Testing; Group: Pollution & Environment

Phys	sical & Chemical Parameters			
1	pH (at 25°C)	9.4	-	IS 3025 (Part 11): 2017
2	Total Suspended Solids	90	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	171	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	500	mg/L	APHA,24th Ed. 5220,8.544: 2023
5	Ammonical Nitrogen (as NH3-N)	26.9	mg/L	APHA,24th Ed.,4500- NH3,B & C,424 & 425: 2023
6	Total Nitrogen (as N)	35.5	mg/L	APHA.24th Ed.,4500.A.415: 2023
Biolo	gical Testing; Group: Environment & Po	llution		
Bact	eriological Parameters			
7	Faecal Coliforms	244	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142; 2023

Unit

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

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Method



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TEST REPORT

Sample ID : E/01/24/5044 Report			No. E/01/24/50	044 Report Date		16/01/2024	
Customer Chhatr 1st Flo			pai Internation apati Shivaji Ma or, Terminal 1-B ai-400099,Maha	haraj Internati , Santacruz(E)	onal Airport,		
Samp	ling done by	Labora	itory		Sample Des	cription / Type	Treated Sewage Effluent
Samp	ling Location	Cargo	STP Outlet		Date - Sam	oling	10/01/2024
Samp	le Quantity / Packing		no. plastic can	bottle	Date - Rece	ipt of Sample	11/01/2024
Samp	* N ²		24th Ed.,2023, 1 A, 1094, 9060 B, :2006		Date - Start of Analysis		11/01/2024
Order	Reference	Work 0	Order No. 57003 2023	30185 dated	Date - Com	pletion of Analysi	s 15/01/2024
r.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
	nical Testing; Group: Po		Environment				
Phys	ical & Chemical Parame	ters		1			
1	pH (at 25°C)		7.5	5.5-9.0		-	IS 3025 (Part II): 2017
2	Total Suspended Solids		14	Not to exceed 20		mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Den (3 days, 27°C)	nand	5	Not to e	exceed 10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demar	nd	18	Not to e	exceed 50	mg/L	APHA,24th Ed.,5220.B.544, 2023
5	Ammonical Nitrogen (as	NH3-N)	2.2	Not to	exceed 5	mg/L	APHA 24th Ed. 4500- NH3, F.429, 2023
6	Total Nitrogen (as N) 5.1		Not to exceed 10		mg/L APHA.24th Ed. 4500.A.415: 202		
Biol	ogical Testing; Group: I	Environm	ent & Pollution	1			
Bacte	eriological Parameters						
7	Faecal Coliforms		36	Less t	han 100	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023



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Sample ID : E/02/24/5111	Report No. E/02/24/5111	Report Date	29/02/2024
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	23/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	24/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	24/02/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	28/02/2024

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	8.4	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	80	mg/L	IS 3025 (Part 17) Amds 1: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	148	mg/L	15 3025 (Part 44): 1993
4	Chemical Oxygen Demand	460	mg/L	APHA.24th Ed. 5220.8.544, 2023
5	Ammonical Nitrogen (as NH3-N)	22.4	mg/L	APHA,24th Ed.,4500- NH3, F.429: 2023
6	Total Nitrogen (as N)	25.2	mg/L	APHA.24th Ed.,4500.A.415: 2023
Biolo	gical Testing; Group: Environment & P	ollution		
	riological Parameters			
7	Faecal Coliforms	216	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023
Conse	ent Number & Date: Format 1.0/CAC/UAN N	0. 0000111260/CR/	2205000810 Date	13.05.2022

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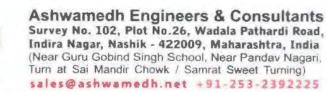
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AEC/F/REP/1-A





TC-5509

Sample ID : E/02/24/5112 Report M		No. E/02/24/51	E/02/24/5112 Report Date			29/02/2024	
Customer Chhatr 1st Flo			ai Internationa Ipati Shivaji Mal Ior, Terminal 1-B I-400099,Mahar	naraj Internati , Santacruz(E)	onal Airport,		
Samp	ling done by	Laborat	ory		Sample Des	cription / Type	Treated Sewage Effluent
Samp	ling Location	Termina	al 1 STP RO Out	let	Date - Samp	oling	23/02/2024
Samp	le Quantity / Packing		no. plastic can x 1 no. Sterile l	oottle	Date - Recei	pt of Sample	24/02/2024
9060			, 1094, 9060 B,	Ith Ed.,2023, 1060 B, 44, & Da 1094, 9060 B, 1097, ISO		of Analysis	24/02/2024
Order Reference Work (22.08.			rder No. 570033	30185 dated	dated Date - Completion of Analys		s 28/02/2024
r.No.	Parameter		Result	10.2 - 51	per MPCB sent	Unit	Method
	nical Testing; Group: Po		Environment				
Phys	ical & Chemical Parame	ters					10 0005 (0
1	pH (at 25°C)		7.5	5.5-9.0		-	IS 3025 (Part II): 2017
2	Total Suspended Solids		10	Not to i	exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Dem	hand	5 Not to exceed 10		exceed 10	mg/L	IS 3025 (Part 44): 1993
	(3 days, 27°C)			Not to exceed 50		11	APHA,24th Ed.,5220,8,544, 2023
4	(3 days, 27°C) Chemical Oxygen Deman	d	16	Not to a	exceed 50	mg/L	en er in hundensteren er en er
4			16 1.78		exceed 50 exceed 5	mg/L mg/L	the Configuration of the second second
	Chemical Oxygen Deman			Not to			the Conference of the second second second
5	Chemical Oxygen Deman Ammonical Nitrogen (as	NH3-N)	1.78 5.1	Not to	exceed S	mg/L	APHA.24th Ed.,4500- NH3 F 429 2023
5 6 Biolo	Chemical Oxygen Deman Ammonical Nitrogen (as Total Nitrogen (as N)	NH3-N)	1.78 5.1	Not to	exceed S	mg/L	APHA.24th Ed.,4500- NH3 F 429 2023
5 6 Biolo	Chemical Oxygen Deman Ammonical Nitrogen (as Total Nitrogen (as N) gical Testing; Group: Er	NH3-N)	1.78 5.1	Not to Not to	exceed S	mg/L	APHA.24th Ed.,4500- NH3 F 429 2023

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Sample ID : E/02/24/5113	Report No. E/02/24/5113	Report Date	29/02/2024
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatii 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	23/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	24/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	24/02/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	28/02/2024

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.78	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	110	mg/L	IS 3025 (Part 17) Amds 1, 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	207	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	620	mg/L	APHA.24th Ed. 5220,8 544 2023
5	Ammonical Nitrogen (as NH3-N)	35.8	mg/L	APHA,24th Ed. 4500- NH3, F.429: 2023
6	Total Nitrogen (as N)	41.6	mg/L	APHA.24th Ed. 4500.4.415: 2023
	gical Testing; Group: Environment & F	ollution		
	riological Parameters			
7	Faecal Coliforms	277	MPN Index /100 ml	APHA 241h Ed. 9221-E, 1142-2023

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

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AEC/F/REP/1-A

Page 1 of 1



TEST REPORT

5509

Sample ID : E/02/24/5114 Report 1			No. E/02/24/51	14 Report Date		29/02/2024	
Customer Chhatn 1st Flo			ai Internationa rapati Shivaji Mal por, Terminal 1-B ai-400099,Mahar	naraj Internati , Santacruz(E)	onal Airport,		
Sampl	ing done by	Labora	itory		Sample Des	cription / Type	Treated Sewage Effluent
Sampl	ing Location	Termin	al 2 STP RO Out	let	Date - Samp	oling	23/02/2024
Sampl	e Quantity / Packing		l no. plastic can l x 1 no. Sterile l	oottle	Date - Recei	ipt of Sample	24/02/2024
		24th Ed.,2023, 1060 B, 44, & A, 1094, 9060 B, 1097, ISO		Date - Start of Analysis		24/02/2024	
Order Reference		Order No. 5700330185 dated		Date - Completion of Analysis		is 28/02/2024	
ir.No.	Parameter		Result		per MPCB sent	Unit	Method
	nical Testing; Group: Pol		Environment	1		· · ·	
Physi	ical & Chemical Paramet	ters				1	10 0000 /0
1	pH (at 25°C)		7.7	5.5-9.0		-	15 3025 (Part II): 2017
2	Total Suspended Solids	_	15		exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Dem (3 days, 27°C)	and	6	Not to e	exceed 10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Deman	d	20	Not to (exceed 50	mg/L	APHA 24th Ed. 5220, 8, 544, 2023
5	Ammonical Nitrogen (as I	NH3-N)	2.9	Not to	exceed 5	mg/L	APHA.24th Ed.,4500- NH3, F 429, 202
6	5 Total Nitrogen (as N)		4.2	Not to exceed 10		mg/L	APHA.24th Ed. 4500 A.445 2023
Biolo	gical Testing; Group: En	vironm	ent & Pollution				
Bacte	eriological Parameters						
	Faecal Coliforms		48	Less than 100		MPN Index /100 ml	APHA_24th Ed_9221-E_1142_2023
7						/100 111	

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TEST REPORT

5509

Sample ID : E/02/24/5115	Report No. E/02/24/5115	Report Date	29/02/2024
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	23/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	24/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	24/02/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	28/02/2024

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	onment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	9.1		IS 3025 (Part II). 2017
2	Total Suspended Solids	82	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	160	mg/L	IS 3025 (Part 44), 1993
4	Chemical Oxygen Demand	480	mg/L	APHA.24th Ed., 5220, 8, 544 2023
5	Ammonical Nitrogen (as NH3-N)	24.6	mg/L	APHA.24th Ed.,4500- NH3, F,429, 2023
6	Total Nitrogen (as N)	32.5	mg/L	APHA,24th Ed.,4500,4,415; 2023
Biolog	gical Testing; Group: Environment & P	ollution		
Bacte	riological Parameters			
7	Faecal Coliforms	232	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023
Conse	nt Number & Date: Format 1.0/CAC/UAN I	NO. 0000111260/CR/	2205000810 Date	13.05.2022

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TEST REPORT

Samp	le ID : E/02/24/5116	No. E/02/24/51	16	Report Date	GA	29/02/2024	
Name Custo	and address of mer	Chhatri 1st Floo	ai Internationa apati Shivaji Mal or, Terminal 1-B ii-400099,Mahar	haraj Internati , Santacruz(E)	onal Airport,		
Samp	ling done by	Laborat	tory		Sample Des	cription / Type	Effluent
Samp	ling Location	Cargo S	STP Outlet		Date - Sam	pling	23/02/2024
Samp	le Quantity / Packing		no. plastic can x 1 no. Sterile l	oottle	Date - Rece	ipt of Sample	24/02/2024
Samp			, 1094, 9060 B,			of Analysis	24/02/2024
Order	Reference	Work 0	rder No. 57003: 2023	30185 dated	Date - Com	pletion of Analysi	s 28/02/2024
r.No.	Parameter		Result		per MPCB sent	Unit	Method
Chen	nical Testing; Group: Pol	lution &	Environment	1			
Phys	ical & Chemical Paramet	ters			-		
1	pH (at 25°C)		7.61	5.5	5-9.0	-	IS 3025 (Part 11): 2017
2	Total Suspended Solids		12	Not to exceed 20		mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)		6	Not to e	exceed 10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Deman	d	22	Not to e	exceed 50	mg/L	APHA.24th Ed. 5220.8.544 2023
5	Ammonical Nitrogen (as NH3-N)		2.3	Not to	exceed 5	mg/L	APHA 24th Ed. 4500 NH3, F 429, 2023
6	Total Nitrogen (as N)		5.5	Not to e	exceed 10	mg/L	APHA.24th Ed. 4500, A.445, 2023
0	gical Testing; Group: En	vironme	nt & Pollution				
~	gical resung, aroup. En						
Biolo		eriological Parameters					

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TEST REPORT

Sample ID : E/03/24/5035	Report No. E/03/24/5035	Report Date	19/03/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	12/03/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	13/03/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	13/03/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	18/03/2024

r.No.	Parameter	Result	Unit	Method			
Chemical Testing; Group: Pollution & Environment							
Physi	cal & Chemical Parameters						
1	pH (at 25°C)	8.6	-	IS 3025 (Part II): 2017			
2	Total Suspended Solids	82	mg/L	IS 3025 (Part 17) Amds.1: 2017			
3	Biochemical Oxygen Demand (3 days, 27°C)	144	mg/L	IS 3025 (Part 44): 1993			
4	Chemical Oxygen Demand	460	mg/L	APHA,24th Ed.,5220,8,544: 2023			
5	Ammonical Nitrogen (as NH3-N)	26.9	mg/L	APHA,24th Ed. 4500- NH3.8 & C.424 & 425: 2023			
6	Total Nitrogen (as N)	34.6	mg/L	APHA,24th Ed. 4500.A.415: 2023			
Biolog	gical Testing; Group: Environment & Po	ollution					
Bacte	riological Parameters						
7	Faecal Coliforms	220	MPN Index	APHA, 24th Ed., 9221-E, 1142: 2023			

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TEST REPORT

Samp	ample ID : E/03/24/5036 Repor		No. E/03/24/50	36	Report Date	9	19/03/2024
Name Custo	and address of mer	Chhatra 1st Floo	ai Internation apati Shivaji Ma or, Terminal 1-B i-400099,Mahar	haraj Internat , Santacruz(E)	onal Airport,		
Samp	Sampling done by Laboratory			Sample Des	cription / Type	Treated Sewage Effluent	
Samp	ling Location	Termina	al 1 STP RO Out	let	Date - Samj	oling	12/03/2024
Samp	le Quantity / Packing		no. plastic can x 1 no. Sterile l	bottle	Date - Rece	ipt of Sample	13/03/2024
Samp			Date - Start of Analysis		13/03/2024		
Order Reference Work		Work O 22.08.2	Order No. 5700330185 dated .2023		Date - Completion of Analysis		s 18/03/2024
ir.No.	Parameter		Result		per MPCB sent	Unit	Method
Chen	nical Testing; Group: Po	Ilution &	Environment				
Phys	ical & Chemical Parame	ters					
1	pH (at 25°C)		7.6	5.9	5-9.0	-	IS 3025 (Part II): 2017
	Total Suspended Solids 12		Not to exceed 20			D. D. D. C. (2) 1 1 1 1 0010	
2	Total Suspended Solids		12	Not to a	exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
2	Total Suspended Solids Biochemical Oxygen Dem (3 days, 27°C)	hand	3		exceed 20	mg/L mg/L	IS 3025 (Part 17) Amds.1: 2017 IS 3025 (Part 44): 1993
	Biochemical Oxygen Dem			Not to e			
3	Biochemical Oxygen Dem (3 days, 27°C)	d	3	Not to e	exceed 10	mg/L	IS 3025 (Part 44): 1993 APHA.24th Ed5220.8.544: 2023
3	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman	d	3 10	Not to e Not to e Not to	exceed 10 exceed 50	mg/L mg/L	IS 3025 (Part 44): 1993 APHA.24th Ed5220.8.544: 2023
3 4 5 6	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman Ammonical Nitrogen (as	id NH3-N)	3 10 1.8 4.2	Not to e Not to e Not to	exceed 10 exceed 50 exceed 5	mg/L mg/L mg/L	IS 3025 (Part 44): 1993 APHA.24th Ed5220.8.544: 2023 APHA.24th Ed4500- NH3. F.429, 202
3 4 5 6 Biolo	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman Ammonical Nitrogen (as Total Nitrogen (as N)	id NH3-N)	3 10 1.8 4.2	Not to e Not to e Not to	exceed 10 exceed 50 exceed 5	mg/L mg/L mg/L	IS 3025 (Part 44): 1993 APHA.24th Ed5220.8.544: 2023 APHA.24th Ed4500- NH3. F.429, 202

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TEST REPORT

Sample ID : E/03/24/5037	Report No. E/03/24/5037	Report Date	19/03/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	12/03/2024
Sample Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of sample	13/03/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	13/03/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	18/03/2024

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.8	-	IS 3025 (Part 11): 2017
2	Total Suspended Solids	96	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	180	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	540	mg/L	APHA.24th Ed.,5220,8.544: 2023
5	Ammonical Nitrogen (as NH3-N)	28	mg/L	APHA.24th Ed.,4500- NH3.8 & C.424 & 425: 2023
6	Total Nitrogen (as N)	36.5	mg/L	APHA.24th Ed.,4500,A.415: 2023
Biolog	gical Testing; Group: Environment & Po	ollution		
Bacte	riological Parameters			
7	Faecal Coliforms	240	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023

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TEST REPORT

Sample ID : E/03/24/5038 Report		Report No. E/03/24/5038 Report Dat		Report Date	2	19/03/2024	
Name and address of Customer Chhatrapati Shivaji Ma 1st Floor, Terminal 1-8 Mumbai-400099,Maha		haraj Internati , Santacruz(E)	onal Airport,				
Sampling done by Labora		ory		Sample Des	cription / Type	Treated Sewage Effluent	
Sampling Location Termin		Termina	ai 2 STP RO Out	let	Date - Samp	oling	12/03/2024
Sample Quantity / Packing 2 L x 1 no. plastic		no. plastic can x 1 no. Sterile	bottle	Date - Rece	ipt of Sample	13/03/2024	
Samp	pling Procedure APHA,24th Ed.,2023, 1060 B, 44, & Date - Start of Analysis 9060 A, 1094, 9060 B, 1097, ISO 19458:2006		rt of Analysis 13/03/2024				
Order Reference Work (Work 0 22.08.2	A CONTRACT OF A		pletion of Analys	is 18/03/2024	
r.No	. Parameter		Result		per MPCB sent	Unit	Method
	nical Testing; Group: Po ical & Chemical Parame		Environment				
1	pH (at 25°C)		7.9	5.0	5-9.0	-	IS 3025 (Part II): 2017
2	Total Suspended Solids		15		exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
3	Biochemical Oxygen Der (3 days, 27°C)	mand	5		exceed 10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Dema	nd	15	Not to e	exceed 50	mg/L	APHA.24th Ed.,5220,8,544 2023
5	Ammonical Nitrogen (as	NH3-N)	2.6	Not to	exceed 5 mg/L		APHA.24th Ed.,4500- NH3, F.429 2023
6	6 Total Nitrogen (as N)		5	Not to e	exceed 10	mg/L	APHA.24th Ed.,4500,A.415: 2023
	ogical Testing; Group: E	nvironme	nt & Pollution		_		
Bact	eriological Parameters						
7	Faecal Coliforms		49	Less t	han 100	MPN Index	APHA, 24th Ed., 9221-E, 1142: 2023

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TEST REPORT

Sample ID : E/03/24/5039	Report No. E/03/24/5039	Report Date	19/03/2024
Name and address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Cargo STP Inlet	Date -Sampling	12/03/2024
Sample Quantity / Packing	Sample Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		13/03/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44, & 9060 A, 1094, 9060 B, 1097, ISO 19458:2006	Date - Start of Analysis	13/03/2024
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	18/03/2024

Sr.No. Parameter Result Unit Method Chemical Testing; Group: Pollution & Environment Physical & Chemical Parameters Physical & Chemical Parameters

ical & Chemical Parameters			
pH (at 25°C)	9.2	-	IS 3025 (Part II) 2017
Total Suspended Solids	84	mg/L	IS 3025 (Part 17) Amds.1: 2017
Biochemical Oxygen Demand (3 days, 27°C)	160	mg/L	IS 3025 (Part 44): 1993
Chemical Oxygen Demand	480	mg/L	APHA,24th Ed.,5220,8,544, 2023
Ammonical Nitrogen (as NH3-N)	24.6	mg/L	APHA.24th Ed.,4500 - NH3,8 & C,424 & 425: 2023
Total Nitrogen (as N)	30.4	mg/L	APHA,24th Ed.,4500,A,415: 2023
gical Testing; Group: Environment & Po	llution		
eriological Parameters			
Faecal Coliforms	220	MPN Index /100 ml	APHA. 24th Ed., 9221-E, 1142: 2023
	pH (at 25°C) Total Suspended Solids Biochemical Oxygen Demand (3 days, 27°C) Chemical Oxygen Demand Ammonical Nitrogen (as NH ₃ -N) Total Nitrogen (as N) gical Testing; Group: Environment & Po priological Parameters	pH (at 25°C)9.2Total Suspended Solids84Biochemical Oxygen Demand160(3 days, 27°C)24.6Chemical Oxygen Demand480Ammonical Nitrogen (as NH3-N)24.6Total Nitrogen (as N)30.4gical Testing; Group: Environment & Pollutioneriological Parameters	pH (at 25°C)9.2Total Suspended Solids84mg/LBiochemical Oxygen Demand (3 days, 27°C)160mg/LChemical Oxygen Demand480mg/LAmmonical Nitrogen (as NH ₃ -N)24.6mg/LTotal Nitrogen (as N)30.4mg/Lgical Testing; Group: Environment & Pollution

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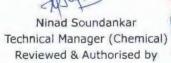
TEST REPORT

Sample ID : E/03/24/5040 Report		rt No. E/03/24/5040 Report D		Report Date	3	19/03/2024	
Name and address of Customer Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra		ional Airport,					
Sampling done by Labora		Laborat	ory		Sample Des	cription / Type	Effluent
Samŗ	ling Location	Cargo S	STP Outlet		Date - Samp	oling	12/03/2024
Samŗ	ole Quantity / Packing		no. plastic can x 1 no. Sterile l	pottle	Date - Recei	ipt of Sample	13/03/2024
Sampling Procedure			A,24th Ed.,2023, 1060 B, 44, & A, 1094, 9060 B, 1097, ISO		Date - Start of Analysis		13/03/2024
The second		Work 0 22.08.2	the second		Date - Comj	pletion of Analysi	s 18/03/2024
r.No	Parameter		Result	Limits as	per MPCB	Unit	Method
		-		Con	sent		
Cher	nical Testing; Group: P	ollution &	Environment	Con	sent		
	nical Testing; Group: P sical & Chemical Param		Environment	Con	sent		
			Environment 7.6		5-9.0	-	IS 3025 (Part II): 2017
Phys	ical & Chemical Param			5.5		- mg/L	IS 3025 (Part II): 2017 IS 3025 (Part I7) Amds.1: 2017
Phys 1	pH (at 25°C)	eters	7.6	5.1 Not to e	5-9.0		
Phys 1 2	pH (at 25°C) Total Suspended Solids Biochemical Oxygen De	eters mand	7.6 14	5.5 Not to e Not to e	5-9.0 exceed 20	mg/L	IS 3025 (Part 17) Amds.1: 2017
Phys 1 2 3	pH (at 25°C) Total Suspended Solids Biochemical Oxygen De (3 days, 27°C)	eters mand	7.6 14 4	5.5 Not to e Not to e	5-9.0 exceed 20 exceed 10	mg/L mg/L	IS 3025 (Part 17) Amds.1: 2017 IS 3025 (Part 44): 1993
Phys 1 2 3	pH (at 25°C) Total Suspended Solids Biochemical Oxygen De (3 days, 27°C) Chemical Oxygen Dema	eters mand	7.6 14 4 12	5.5 Not to e Not to e Not to e	5-9.0 exceed 20 exceed 10 exceed 50	mg/L mg/L mg/L	IS 3025 (Part 17) Amds.1: 2017 IS 3025 (Part 44): 1993 APHA.24th Ed.,5220,8,544: 2023
Phys 1 2 3 4 5 6	ical & Chemical Param pH (at 25°C) Total Suspended Solids Biochemical Oxygen De (3 days, 27°C) Chemical Oxygen Dema Ammonical Nitrogen (as	eters mand ind s NH ₃ -N)	7.6 14 4 12 2 4.6	5.5 Not to e Not to e Not to e	5-9.0 exceed 20 exceed 10 exceed 50 exceed 5	mg/L mg/L mg/L mg/L	IS 3025 (Part 17) Amds.1: 2017 IS 3025 (Part 44): 1993 APHA.24th Ed.,5220,8,544: 2023 APHA.24th Ed.,4500- NH3, F.429: 2023
Phys 1 2 3 4 5 6 Biol d	ical & Chemical Param pH (at 25°C) Total Suspended Solids Biochemical Oxygen De (3 days, 27°C) Chemical Oxygen Dema Ammonical Nitrogen (as Total Nitrogen (as N)	eters mand ind s NH3-N) Environme	7.6 14 4 12 2 4.6	5.5 Not to e Not to e Not to e	5-9.0 exceed 20 exceed 10 exceed 50 exceed 5	mg/L mg/L mg/L mg/L	IS 3025 (Part 17) Amds.1: 2017 IS 3025 (Part 44): 1993 APHA.24th Ed.,5220,8,544: 2023 APHA.24th Ed.,4500- NH3, F.429: 2023

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TEST REPORT

Sample ID : E/01/24/0157	Report No. E/01/24/0157	Report Date	17/01/2024
Name and address of Customer	Mumbai International Airport Lte Chhatrapati Shivaji Maharaj Internal 1st Floor, Terminal 1-B, Santacruz(E Mumbai-400099,Maharashtra	tional Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Oil Interceptor Sample M-8	Date-Sampling	12/01/2024
Sample Quantity / Packing	mple Quantity / Packing 2 L x 1 no. plastic can 1 L x 1 no. glass bottle		13/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	13/01/2024
Order Reference	5.0. No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/01/2024

Sr.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Envi	ronment		
1	pH (at 25°C)	7.11	-	IS 3025 (Part 11): 1983
2	Total Suspended Solids	10	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	20	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-B, 5-42
6	Free Residual Chlorine (as Cl2)	0.23	mg/L	APHA, 23rd Ed., 4500-CI-G, 4-72

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



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TEST REPORT

Sample ID : E/01/24/0158	Report No. E/01/24/0158	Report Date	17/01/2024
Name and address of Customer	Mumbai International Airport Lte Chhatrapati Shivaji Maharaj Internal 1st Floor, Terminal 1-B, Santacruz(E Mumbai-400099,Maharashtra	tional Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Oil Interceptor Sample K-4	Date-Sampling	12/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	13/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	13/01/2024
Order Reference	S.O. No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/01/2024

F.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Envi	ronment		
1	pH (at 25°C)	7.98	-	IS 3025 (Part II):1983
2	Total Suspended Solids	18	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	13	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	50	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-8, 5-42
6	Free Residual Chlorine (as Cl2)	0.22	mg/L	APHA, 23rd Ed., 4500-CI-G, 4-72

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





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TEST REPORT

Sample ID : E/01/24/0159	Report No. E/01/24/0159	Report Date	17/01/2024
Name and address of Customer	Mumbai International Airport Lt Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1-B, Santacruz(E Mumbai-400099, Maharashtra	tional Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Oil Interceptor Sample G-1	Date -Sampling	12/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	13/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	13/01/2024
Order Reference	S.O. No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/01/2024

Sr.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Envi	ronment		
1	pH (at 25°C)	7.09	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	12	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025 (Part 44) 1993
4	Chemical Oxygen Demand	10	mg/L	APHA, 23rd Ed., 5220-8, 5-18
5	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed. 5520-8. 5-42
6	Free Residual Chlorine (as Cl2)	0.23	mg/L	APHA, 23rd Ed., 4500-CI-G, 4-72

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



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TEST REPORT

Sample ID : E/01/24/0160	Report No. E/01/24/0160	Report Date	17/01/2024
Name and address of Customer	Mumbai International Airport Lt. Chhatrapati Shivaji Maharaj Internal 1st Floor, Terminal 1-B, Santacruz(E Mumbai-400099, Maharashtra	tional Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Oil Interceptor Sample CCR-1	Date-Sampling	12/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	13/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	13/01/2024
Order Reference	5.0. No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/01/2024

Method Sr.No. Unit Parameter Result Chemical Testing; Group: Pollution & Environment IS 3025 (Part 11):1983 pH (at 25°C) 7.24 -1 IS 3025 (Part 17):1984 20 Total Suspended Solids mg/L 2 **Biochemical Oxygen Demand** 5 mg/L IS 3025 (Part 44):1993 3 (3 days, 27°C) APHA 23rd Ed. 5220-8 5-18 Chemical Oxygen Demand 20 mg/L 4 APHA, 23rd Ed., 5520-8, 5-42 BLQ (LOQ:1) Oil & Grease mg/L 5 APHA, 23rd Ed. 4500-CI-G.4-72 Free Residual Chlorine (as Cl2) 0.23 mg/L 6

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



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TEST REPORT

Sample ID : E/01/24/0161	Report No. E/01/24/0161	Report Date	17/01/2024
Name and address of Customer	Mumbai International Airport Lt Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1-B, Santacruz(E Mumbai-400099, Maharashtra	tional Airport,	
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	Oil Interceptor Sample Y-1	Date-Sampling	12/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	13/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	13/01/2024
Order Reference	S.O. No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	16/01/2024

Sr.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Envi	ronment		
1	pH (at 25°C)	7.31	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	12	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	20	mg/L	APHA, 23rd Ed., 522D-8, 5-18
5	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 552D-B, 5-42
6	Free Residual Chlorine (as Cl ₂)	0.23	mg/L	APHA, 23rd Ed., 4500-C1-G.4-72

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



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Note:

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Annexure –5 DG Enclosures and stack



Annexure – 05 A - Consent to establish dated 21/09/2022.

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437 Fax: 24023516 Website: http://mpcb.gov.in Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

Date: 21/09/2022

Infrastructure/RED/L.S.I No:- Format1.0/CAC-CELL/UAN No.0000139579/CE/2209001403 To, Mumbai International Airport Ltd., Chhatrapati Shivaji Maharaj International Airport, 1st floor, CTS No. 2085 (Part), 1405 (Part) & 145-A(Part), 145-A(Part), Terminal 1-B, Santacruz (East), Mumbai-400099.



Sub: Consent to Establish for proposed development of Chhatrapati Shivaji Maharaj International airport under Red/LSI category.

- **Ref:** 1. Environment Clearance accorded by Env. Dept, GoM vide letter No. SIA/MH/MIS/127703/2019 dtd. 31/03/2020.
 - 2. Renewal of Consent to Operate accorded by the Board vide letter Format1.0/CAC-Cell/UAN No. 0000116725/CR-2202000148 dtd. 02/02/2022.
 - 3. Minutes of Consent Appraisal Committee meeting held on 30/08/2022.

Your application NO. MPCB-CONSENT-0000139579

For: Grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I,II,III & IV annexed to this order:

- 1. The Consent to Establish is granted for a period upto commissioning of project or up to 5 year whichever is earlier.
- 2. The capital investment of the project is Rs.1822 Cr. (As per undertaking submitted by pp).
- 3. The Consent to Establish is valid for proposed construction of Mumbai International Airport named as Mumbai International Airport Ltd., Chhatrapati Shivaji Maharaj International Airport, 1st floor, CTS No. 2085 (Part), 1405 (Part) & 145-A(Part), 145-A(Part), Terminal 1-B, Santacruz (East), Mumbai- 400099 on Total Plot Area of 17,06,100 SqMtrs for Construction BUA of 8,46,516.77 SqMtrs out of Total Construction BUA of 8,77,696.77 SqMtrs as per EC granted dated 31/03/2020 including utilities and services

Sr.No	Permission Obtained	Plot Area (SqMtr)	BUA (SqMtr)
1	EC- dtd. 31/03/2020	1706100.00	877696.77
2	C to R - dtd. 02/02/2022	7700.00	31180.00

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal
1.	Trade effluent	Nil	Nil	Nil

Sr No	Description	Permitted	Standards to	Disposal
	Domestic effluent	2129	As per Schedule - I	The treated sewage shall be 60% recycled for secondary purposes and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
S-1 to S-6	DG Sets of 2500 kVA x 6	06	As per Schedule -II
S-7 to S-16	DG Sets of 2000 kVA x 10	10	As per Schedule -II
S-17 to S-20	DG Sets of 1850 kVA x 4	04	As per Schedule -II
S-21 to S-25	DG Sets of 1500 kVA x 5	05	As per Schedule -II

6. Conditions under Solid Waste Rules, 2016:

Sr No	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Bio-degradable Waste		OWC followed by composting facility.	Used as Manure.
2	Non-biodegradable Waste	3.3 MT/Day	Segregation	Handed over to Auth. Vendor.

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr No	Category No.	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	10000	Ltr/A	IRecycle	Handed over to Auth. reprocessor.

- 8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
- 10. PP shall provide STP of adequate capacity to achieve the treated domestic effluent standard for the parameter BOD-10 mg/lit including disinfection facility.
- 11. The treated sewage shall be 60% recycled for secondary purposes such as toilet flushing, air-conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.
- 12. PP shall provide organic waste digester along with composting facility/bio-digester (biogas) for the treatment of wet garbage.
- 13. PP shall make provision of charging ports for electric vehicles at least 40% of total available parking slots.

14.	PP shall submit BG of Rs.	25 Lakh towards compliance	of EC and Consent conditions.
-----	---------------------------	----------------------------	-------------------------------

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	3644000.00	MPCB-DR-12557	27/06/2022	RTGS

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai II

- They are directed to ensure the compliance of the consent conditions.
- 2. Chief Accounts Officer, MPCB, Sion, Mumbai



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided Sewage Treatment Plant of designed capacity 5500 CMD with SBR technology for the treatment of 2129 CMD of sewage.
 - B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
1	рН	5.5-9.0
2	BOD	10
3	COD	50
4	TSS	20
5	NH4 N	5
6	N-total	10
7	Fecal Coliform	less than 100

- C] The treated sewage shall be 60% recycled for secondary purposes such as toilet flushing, air-conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and/ or connected to local body sewer line with water metering system.
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act,1974 and as amended, and other provisions as contained in the said act.

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	778.00
2.	Domestic purpose	2263.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1) As per your application, you have proposed to provide the Air pollution control (APC)system and also proposed to erect following stack (s) and to observe the following fuel pattern-

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-1 to S-6	DG Sets of 2500 kVA x 6	Acoustic Enclosure	10.00	HSD 2550 Ltr/Hr	1	SO2	1224 Kg/Day
S-7 to S-16	DG Sets of 2000 kVA x 10	Acoustic Enclosure	8.94	HSD 3400 Ltr/Hr	1	SO2	1632 Kg/Day
S-17 to S-20	DG Sets of 1850 kVA x 4	Acoustic Enclosure	8.60	HSD 1260 Ltr/Hr	1	SO2	604.80 Kg/Day
S-21 to S-25	DG Sets of 1500 kVA x 5	Acoustic Enclosure	7.75 सहाराष्ट्र	HSD 1275 Ltr/Hr	1	SO2	612 Kg/Day

2) The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards.

Total Particular matter	Not to exceed	150 mg/Nm3
-------------------------	---------------	------------

- 3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration well before its life come to an end or erection of new pollution control equipment.
- 4) The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

5) Conditions for utilities like Kitchen, Eating Places, Canteens:-

- a) The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
- b) The toilet shall be provided with exhaust system connected to chimney through ducting.
- c) The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
- d) The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.

		Detail	SCHEDUL s of Bank G		5:	
Sr. No.	Consent(C2E/C2O /C2R)	Amt of BG Imposed	Submission	Purpose of BG	Compliance Period	Validity Date
1	Consent to Establish	Rs. 25 Lakh	15 days	Towards Compliance of EC & C to E conditions.	Monthly	Commissioning of the project or 5 years whichever is earlier.

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent. # Existing BG obtained for above purpose if any may be extended for period of validity as above.

BG Forfeiture History

NA	Sı	rno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	BG
NA NA					NA			

BG Return details

Srno. Consent (C2E/C2O/C2R) BG imposed Purpose of BG Amount of BG Returned
NA

SCHEDULE-IV

Conditions during construction phase

A	During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.
В	During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.
с	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

General Conditions:

- 1 The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste (Management & Handling Rule 2011.
- 3 Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4 Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.

- 5 Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 6 Solid Waste The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & E-Waste (M & H) Rule 2011.
- 7 Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
- 8 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9 The treated sewage shall be disinfected using suitable disinfection method.
- 10 The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
- 11 The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

This certificate is digitally & electronically signed.

Annexure -O6 Contingency plan for spills prevention.

Mumbai International Airport Ltd.

AIRSIDE OPERATIONS

AIRSIDE SAFETY

STANDARD OPERATING PROCEDURE

FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

Activity	Name	Signature i	Date
Prepared By:	Rajesh Jadhav DGM- Airside Safety	Regard How	
	Vinayak Sohani Documentation Lead-	later	
Recommended by:	Jayant Dasgupta AVP -Airside Management	J. 2.	
	Prasad Nair MR-IMS	Re	Mulu -
Approved by	Prabhat Mahapatra EVP - Operations	Annihop	-13/1/21



SOP: FUEL/ FLUID SPILLAGE Issue No 2 04 Revision No 2 04 Doc No: MIAL/AO-ASM/SOP/03/04 Issue Date : 01/04/2011 Revision Date : 11/01/2020

S. NO.	CONTENTS	PAGE NUMBER	REVISION STATUS
1	PURPOSE	03	
2	SCOPE	03	
3	OBJECTIVE	03	
4	RESPONSIBILITY	03	YES
5	DEFINITIONS & ABBREVIATIONS	03	YES
6	PROCEDURE	04	YES
7	FORMATS USED	07	
8	RECORDS GENERATED	07	
9	REFERENCES	07	
10	REVISION HISTORY	08	YES

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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
CISE	Central Industrial Security Force
GHA	Ground Handling Agency
300	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 guickest 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.



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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

6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

- Apron Control
- Concerned airline/ operator.
- CISE
- 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.



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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.



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Contact List

Agency	Designation	Means of Communication	
ARFF	Duty Manager	Radio / Telephone	
ATC	Duty Controller	Radio / Telephone	
Apron Control	Apron Manager	Radio / Telephone	
200	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



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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

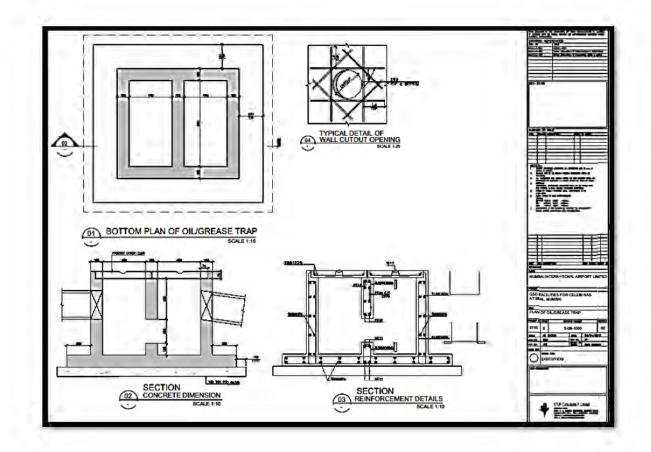
Date	Rev. No.	Page No.	Revision Description	
6/11/2012	01	6	Service charge for clearing spillage is included.	
01/07/2014	02	3	New abbreviations are added, Responsibility changed.	
01/07/2014	02	.4	Definition of major fuel/oil/fluid spillage is revised	
01/07/2014	02	6	Penalty charge is included under section 6.6	
01/07/2014	02	3-7	AOCC replaced as JCC (Joint Contro 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.	



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Annexure -07 Oil Interceptors Drawing.



Annexure -O8 Green Existing Building (GEB) Rating Certificate by CII.



CIII Confederation of Indian Indiastry

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 cortification is calid for next 3 years)

Gurmit Singh Arora Chair, IGBC Green EB O&M

V Suresh Chairman, IGBC

philal

K S Venkatagiri Executive Director, Cli-Godrej GBC Annexure -09 Letter of previous compliance report submission.

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Additional PDCF. Ministry of Environment, Forest, & Climate Change. Regional Office, WC2, New Civil Lanes. Naguur - 4400D1: Jeer SJr. Subject: Harl yearly Environmental Compilance scatus report of Environment Clearance receives for Logredation of Climatrapati Shivaji Mahara; Internacional Alvoort by Mund International Airport Limited: Ref : Environment tilearance File no. 10-5/2007:14-III dated 2 rd June 2017 8 3 rd April 2007. Min reference to the above subject please find enclosed compilance status of EC conditions for the period from April 23 to September 2023. We could not upload compliance status on PARIVESH portal because of technical error on port cherefore this is being submitted through email. Thanking you Yours foithfully. To Muntai International Airport Limited Ministry Of Derating Officer (COU) End: Haff yearly Environmental Compliance report. Cf: 1 2onal officer- Central Pollution Control Board, Vadodare .) Regional officer - Maharashtra Pollution Control Board. Sion (E)	REF MIAL/ENV/25/53	77 Dec 2025
Ministry of Environment, Forest, B. Ollmace Change. Regional Office. WCZ, New Civil Lanes. Napur - A400D: Dear Sir, Subject: Hair yearly Environmental Compliance scatus report of Environment Clearance receive for Lippredation of Cliniatrapati Srivaji Mahare, International Alroot by Mumb International Airport Limited Ref: Environment tlearance File no. 10-5/2007-1A-III dated 2 ^{rm} June 2017 B 3 rd April 2007. With reference to the above subject please find enclosed compliance status of EC conductors in the peniod from April 25 to Sequence 2025. We could not upload compliance status on PARIVESH portal because of technical error on port therefore this is being submitted through email. Thanking you Yours faithfully. For Mumbai International Airport Limited Mine Operating Officer (Cod) Ent: Haif yearly Environmental Compliance report. C1 2 Donal officer - Central Pollucion Control Board, Vedodansi. .) Regional officer - Maharashtra Pollucion Control Board. Ston (c)	Td.	
Regional Office, WCZ, New Civil Lenes. Nagpur - 440001: Dear Sir, Subject: Haif vearity Environmental Compliance scatus report of Environment Clearance deceives for Upgredation of Chhatrapati Shivaji Mahara International Aboort by Mumo International Airport Limited Ref: Environment clearance File no. 10-5/2007-IA-III dated 2 ^{rm} June 2017 B 3 ^{rm} April 2007. With reference to the above subject please find encicised compliance status of EC conditions for the period from April 25 to September 2023. We could not upload compliance status in PARIVESH portal because of technical error on port therefore this is being submitted through email. Thanking you Yours Naithfully. For Mumbai International Airport Limited Mir Ashwin Moronha Chief Operating Officer (Ciof) Enci: Haif yearly Environmental Compliance report. D 2 Jonai Officer - Central Pollution Control Board, Vadodaru .) Regional officer - Maharashtra Pollution Control Board, Sion (E)		Forest & Olimate Chappe
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Annexure – 10 Environment statement Form- V.

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iviandi astici a 1 0	llution Control Boa अप नियंत्रण मंडळ	τα	
aubrends and	44 10034 0300		
ORM V See Rule 14)			
nvironmental Audit Report for the financial Yea	r ending the 31st March 2023		
Unique Application Number		Submitted De	te
MPCB-ENVIRONMENT_STATEMENT-0000057291		12-09-2023	
ART A			
Company Information	1		
Company Name	Application UAN number		
Mumbai International Airport Ltd	MPCB-CONSENT-0000111260		
Address Terminal 18, 1st floor, Chhatrapati Shivaji Interationa Airport, Santacruz (E), Mumbai			
Plot no	Taluka	Village	
Ferminal 1, Santacruz east	Andheri	Santacruz	
Capital Investment (In lakhs)	Scale	City	
1113262.00	LSI	Mumbai city	
Pincode 100099	Person Name Sanjay Rathod	Designation Manager - Environment 6	Sustainability
Telephone Number	Fax Number	Email	and a second
898134277	02266850779	sanjay.rathod@adani.com	
Region	Industry Category	Industry Type	
SRD-Mumbai II	Red	other	
Last Environmental statement submitted online /es	Consent Number MPCB-CONSENT-0000111260	Consent Issue Date 2022-05-13	
Consent Valid Upto	Establishment Year	Date of last environme	nt statement
2024-05-31	2006	submitted	
Industry Category Primary (STC Code) &	2000	Sep 29 2022 12:00:00:00	UNIT .
Secondary (STC Code)			
Product Information Product Name	Consent Quantity	Actual Quantity	UOM
NA (0	Nos./Y
By-product Information			
By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	Nos./Y
art-B (Water & Raw Material Consum)	otion)		

Process		0.00		0.00		
Cooling		0.00		0.00		
Domestic		7100.00		2410.44		
All others		0.00		0.00		
Total		7100.00		2410.44		
2) Effluent Gener Particulars	ation in CMD / ML		nsent Quantity	Actual Que	antity	UOM
Sewage generation	at CSMIA	661	15	1571.70		CMD
2) Product Wise I	Process Water Con	sumption (cubic meter of				
process water pe Name of Products	r unit of product) (Production)		During the Previous	During	the current	UOM
OTHERS			financial Year		cial year	
UTHERS			U	U		
3) Raw Material (per unit of produ		sumption of raw material				
Name of Raw Mat			buring the Previous		the current	UOM
NA		n 0	inancial Year	Financia	il year	CMD
	tion					
4) Fuel Consumpl Fuel Name NA Part-C	tion	Consent quantity 14760	Actual Q 76.40	wantity	UO Ltr/	
Fuel Name -NA Part-C Pollution dischar			76.40		Ltr,	
Fuel Name -NA Part-C Pollution dischart (A) Water	ged to environme	14760	76.40 s specified in the cons s Percentage of variation from prescribed standards with		Ltr,	
Fuel Name -NA Part-C Pollution dischart (A) Water	ged to environmen Quantity of Pollutants discharged (kL/day)	14760 nt/unit of output (Parameter a Concentration of Poilutant discharged(Mg/Lit) Except	76,40 s specified in the cons s Percentage of variation from prescribed		Ltr	
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Fuel Name -NA Part-C Pollution dischary (A) Water Pollutants Detail PH Suspended Solids BOD 3 days (27oC COD (B) Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 7.3 11.92 4.17 15.42 Quantity of Pollutants discharged (kL/day)	14760 mt/unit of output (Parameter a Concentration of Poilutant discharged(/Mg/Lit) Except PH, Temp, Colour Concentration 7.3 14.1 6.2 21.8 Concentration of Poiluta discharged(Mg/NM3)	76,40 as specified in the cons as Percentage of variation from prescribed standards with reasons %variation 0 0 0 0 0 0 0 0 0 0 0 0 0	ent issued) Standard B 50 30 100	Reason Pollutant disch within standan Pollutant disch within standan Pollutant disch within standan	Arge d limit arge d limit arge d limit arge
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Total Particulate D matter (mg/Nm3)	18.36	0	150 Pollutant dis within stand limit	
Part-D				
HAZARDOUS WASTES				
Hazardous Waste Type		Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil		11.760	0	MT/A
5.2 Wastes or residues containi	ng oil	0	7.7	MT/A
33.1 Empty barrels /containers chemicals /wastes	/liners contaminated with hazardous	0.4	1.84	MT/A
23.1 Wastes or residues (not m	ade with vegetable or animal materials)	82.40 5.97		MT/A
2) From Pollution Control Fa	ocilities			
Hazardous Waste Type	Total During Previous Financial year	Total During Curre	nt Financiai year	UOM
0	0	0		
Part-E				
SOLID WASTES				
1) From Process	Total Burley Brouleus Florendel unor	Total During Council	The second second	UON
Plastic waste	Total During Previous Financial year 160	Total During Current i 796.83	rinanciai year	MT/A
Waste Paper	188	419.995		MT/A
Waste glass bottles	120	132.21		MT/A
Broken tins	168	134.66		MT/A
Other Misc. scrap	147	87.985		MT/A
Waste cotton	106	0		MT/A
Wet waste	1397	555.1		MT/A
Organic / food waste	517	207.71		MT/A
Waste wood	150	46.363		MT/A
	Same of the second s			
2) From Pollution Control Fa Non Hazardous Waste Type	Total During Previous Financia	l year Total During C	urrent Financial year	UON
STP sludge	8.96	8.4		MT/A
3) Quantity Recycled or Re-	utilized within the			
unit Waste Type	Total During Pre year	vious Financial Total D year	uring Current Financial	UOM
0	D	0		MIT/A
Part-F				
	ristics(in terms of concentration and qu dopted for both these categories of was		well as solid wastes and	
and a subrane bearing at				

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.2 Wastes or residues containing oil	7.7	MT/A	Hazardous Waste is being disposed to M/s Mumbai Waste Management Limited (MWML)
20.2 Spent solvents	0	MT/A	NA
5.1 Used or spent oil	0	MT/A	NA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1.84	MT/A	Hazardous Waste is being disposed to M/s Mumbai Waste Management Limited (MWML).
23.1 Wastes or residues (not made with vegetable or animal materials)	5.970	MT/A	This hazardous Waste is being disposed to M/s Trans Thane Creek Waste Management Association (TTCWMA) for landfill after treatment. This is MPCB authorized disposal agency

2) Solid Waste			
Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Waste plastic	796.83	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed.
Waste paper	420.83	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Waste glass bottle	132.21	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Waste wood	46.363	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Broken tin	134.66	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Wet garbage	555.1	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Other scrap	87.985	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Waste cotton	0	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed
Food waste (OWC) treated	207.71	MT/A	The non-hazardous waste is collected, segregated and disposed by M/s Compost. Segregation of the waste is being done at the contractors end after the waste is disposed

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	D	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

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

Nil	0	0
[B] Investment Proposed for next Year		
Detail of measures for Environmental P	otection Environmental Protection Measu	res Capital Investment (Lacks)
NA	NA	00
Part-I		
Any other particulars for improving the		

Ξ.

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Particulars

Nil- The Form 5 is cumulative all the CTO (CSMIA & MLCP) both, Para no 4 DG fuel DG Diesel were not appear in the Tab so mentioned figure and submitted

Name & Designation

Sanjay Rathod Manager Environment & Sustainability

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000057291

Submitted On: 12-09-2023

Annexure – 11 Environment Management Plan

Environment Management Plan

▼ IMS Certification:

- **ü** IMS certification (ISO 9001, ISO 14001, & ISO 45001) issued to Mumbai International Airport Limited.
- **ü** MIAL has implemented the Environment Management Plan by taking more effective measures, across the location and has already achieved IMS certification (ISO 9001, ISO 14001, & ISO 45001).

▼ Environment Monitoring

- **ü** Regular Environment Monitoring being carried out at site and all the parameters are within the standard norms.
- MIAL is effectively implementing Environment Management Plan across the site and is regularly carrying out Environment monitoring with respect to Air, Noise, Wastewater and Water etc. and reports are being submitted to all the regulatory authorities, as a part of Six-Monthly Compliance report.

▼ Wastewater Treatment and Disposal /Recycling

- **ü** The sewage generated at the Mumbai International Airport is treated in 15 MLD STP (1 MLD, 4 MLD, 10 MLD) SBR based STP.
- **ü** The Treated wastewater is used for greenbelt development to conserve freshwater consumption.





STP plant



Photograph 1-4: Sewage Treatment Plant of 10 MLD, 4 MLD & 1 MLD, capacity under operation at MIAL

▼ Solid Waste Management plan

As a part of solid waste management plan, two collection points are provided (1 land side and 1 airside) and dustbins are provided at varies location airside and landside facilities for source segregation.

Waste collected from dustbin are taken to waste storage area and further it is being taken by outsourced agency on daily basis for processing inline to solid waste management rules 2016.

Waste generated is being planned to hand inline to 5R principles to attain zero waste to landfill.

Hazardous Waste at MIAL is managed inline to the Hazardous Waste Management Rules 2016.



Photograph 5: Dustbins placed at various locations of MIAL. Photograph 6: Hazardous Waste Collection at MIAL

- **v** Water Conservation:
- **ü** As part of water conservation sensor-based water taps have been installed in all the washrooms of the Terminal building at MIAL.
- **ü** Dry cleaning of solar panels is being carried out at MIAL instead of water wash which saves about 15KL of water per month.
- **ü** 295 number of ground water recharging pits are maintained as part of rainwater harvesting.
- **ü** Treated Water from the STP is utilized for gardening & horticulture purpose.



Photograph 7: Sensor based Taps at MIAL





Terminal 2 landscape under drip irrigation system.

MLCP, inside terminal building and landside area.

Photograph 8: Treated water used at MIAL landscaping & irrigation system.

V Noise Control:

Following safeguard measures are taken for abatement of dust and noise emissions:

- ü Regular cleaning of roads
- **ü** D.G. Set having acoustic enclosures.
- **ü** Adequate green cover of about 4.60Ha has been developed as part of MIAL.
- **ü** Regular Noise Monitoring is being carried out at O4 locations through MoEF&CC NABL approved laboratory.



Photograph 9: Noise Monitoring station at Runway path carrying out continues noise monitoring at MIAL.

v Air Management:

- a Ambient Air Quality Monitoring is carried out by engaging MoEF&CC & NABL accredited laboratory, and all the results are observed to be within Stipulated Standards
- **ü** Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.
- Adequate green cover of about 272 acres has been developed as part of MIAL.





Photograph 9: Dust Cleaning near Terminal at MIAL Photograph 10: Dust Cleaning near Runway at MIAL Photograph 11: Ambient Air Monitoring carrying out at MIAL. Photograph 12: Green Area at MIAL

▼ Energy Savings

Key Initiatives are:

- A) Implemented ESG Policy -2022
- B) Implemented Green Procurement Policy -2022
- C) 45 Fuel-vehicles replaced with EVs.
- D) DC Fast Charging Stations- Installation of 18 charging points (DC fastcharging stations) for Electric Vehicles at T1, T2 MLCP and on Airside
- E) Trees Planted: 3,884 nos.
- F) 100% Green Power implementation
- G) Transition to Lower GWP refrigerant.
- H) Non-CO2 based fire extinguisher.
- I) Residual CO2 Offset through purchasing CER.

▼ Energy Saving Initiatives:

- 1. Replacement of conventional lights with LED lights completed in multiple locations at T2.
- 2. Installation of Sun Pipe for lighting.
- 3. Building Management system.
- 4. Chiller Management System.
- 5. Online water treatment system for chilled as well as condensate water.
- 6. Variable-frequency drive (VFD) for motors.
- 7. Lighting control and monitoring system.
- 8. Apron A, C, D, G High Mast light up-gradation completed for improved and uniform illumination in Airside.
- 9. Replaced cooling tower fan blades with FRP blades at T2.
- 10. De-scaling of chillers completed to improve equipment efficiency in T2.
- 11. Completed conversion of runway edge lights and airside signage board lights to LED light.
- 12. Replacement of old colling tower nozzle with newly designed nozzle.
- 13. Phase wise replacement of belt driven fans of AHUs with EC fans.
- 14. Optimization of AHU operations.
- 15. Implementation of other energy saving best practices like optimized scheduling of operation for Air Conditioning, Vertical Horizontal Transport and Lighting system, timers for streetlights, operational control, optimization of Lux Level.
- 16. Transition to EV vehicles and installation of EV charging stations.
- 17. Replacement of cooler tower fills O3 Nos at T2
- 18. Retrofit of Axial fans in AHU in T2
- 19. Switch from R22 refrigerant to R32 refrigerant.



Photograph 14: EV Charging stations at MIAL



Photograph 14: Solar Panel installed at MIAL.





Photograph 15: RVM winding machine.

Photograph 16: Electric vehicles at MIAL

▼ Additional Measures

- **ü** Non-destructive Wildlife Hazard Management techniques are practiced at Mumbai Airport and as part of the same, organic chemical spray is carried out to control weeds & grass.
- **ü** Airside inspection is practiced at regular intervals and accordingly the wild animals such as dogs, bird, cat. etc are relocated to the safer areas (forest areas) to protect them from any accidents.



Photograph 17: Passive techniques at MIAL to deal with airside wildlife hazards.

Master Plan – Mumbai International Airport Ltd & Green Initiatives:

Mumbai Airport has planned to be developed as a green airport, with key objective of Environmental Sustainability to be achieved through, optimization in resource consumption through following measures:

- Energy Optimization
- Utilization of Solar Energy
- Natural Day Lighting
- Zero Waste to Landfill
- Water Conservation
- Water Harvesting
- Environment Management

The approaches have planned to be adopted from planning & design stage, and hence demand for resources shall be optimized more efficiently.

▼ Energy Optimization

- At the proposed Terminals and Ancillary Buildings necessary Green Building measures will be followed for minimum conservation of energy in line with "Energy Conservation Building Code –2017", "National Building Code 2016". The Terminal is targeted to achieve LEED Certification from the United States Green Building Council (USGBC) or Green Rating for Integrated Habitat Assessment (GRIHA) rating, and all other building shall follow a minimum energy requirement as per ECBC.
- The solar plant will create significant environment benefits over its lifetime. Based on the availability of the land & feasibility solar plant will be planned at Mumbai Airport. Solar energy to the maximum extent will be used, and the possibility of wind energy will be explored to minimize the usage of conventional energy sources.

▼ Air Emission Management

- Battery/electrically charged vehicles would explore for usage at airport for ground service equipment and cargo so that air quality levels are maintained within the permissible limits.
- Air and noise mitigation options will be implemented by defining the approach landing and take-off procedures in a manner to minimize impact.
- MIAL aspire to achieve leadership position in the Airport Carbon International's (ACI) Accreditation Program.

v Wastewater Management

 The state-of-Art latest technology will be adopted for Sewage Treatment Plant 10 MLD, 4MLD and 1 MLD of wastewater will be generated from Airside & Landside areas, which will be treated through STP (SBR) of total capacity of 15MLD, which will be developed on modular basis. Treated wastewater will be used for Landscaping or other purposes.

▼ Noise Management

• MIAL as part of noise management will follow the International Civil Aviation Organization (ICAO) a four-point "balanced approach" that includes:

Reduction of noise at source:

The new and latest aircrafts which are designed with minimum source noise levels shall be allowed at the airports. **Land-use-planning.**

Proper land use planning with super-imposition of probable noise contours will help reduce the noise induced health impacts. **Noise abatement operational procedures:**

- Strict adherence to DGCA/ICAO prescribed environmental guidelines & circulars on airport operations.
- Restricted usage of ground engine run-ups to reduce noise.
- Restricted use of thrust reversal while landing of aircraft to minimize noise in lateral direction.
- Aircrafts with certified engines only shall be allowed to land and take-off to the extent possible to reduce the noise impacts on the surroundings.
- Dual nozzle in the aircraft will reduce the noise levels.
- Proper scheduling of the aircrafts so as to minimize the noise levels.
- Switching off as many engines as possible during idling and taxing.
- Proper maintenance of ground servicing equipment.

▼ Rainwater Harvesting

Recharge pits at every 10 m c/c all along West and East drains in airside along with runway. This amounts to about 295 recharge pits

▼ Greenery Development / Open Space

The principal airport level green space/ open area in the form of central linear green is located along the airport access road. Secondary open areas shall be planned in various locations in different land use zones. The total area under this zone shall be approximately 272 acres in land side and airside area. Mumbai International Airport Limited has planted 1500 trees at state reserve police force ground of Goregaon Mumbai, the entire exercise has been undertaken by the State Reserved Police Force and MIAL horticulture department.

▼ Carbon Accreditation

MIAL recognizes the significance of conserving energy and reducing emissions for ensuring sustainable business operations. In our overall emission footprint, around 99.98% of emissions are of Scope 3 (Indirect emissions), Scope 2 is 0% (Indirect GHG emissions due to purchased electricity) and 0.02% is Scope 1 (Direct GHG emissions). Since, Scope 1 and 2 emissions are directly under our operational control, therefore, we have taken all the possible efforts to reduce its emissions.

We are committed towards enhancing energy efficiency and absolute GHG emission reduction through various interventions and collaborative efforts with our stakeholders. Also, we aspire to achieve leadership position in the Airport Carbon International's (ACI) Airport Carbon Accreditation Program by grabbing ACI-ACA Level 4+ accreditation "Transition" in 2022.

Some of the indicative measures that we have taken our airport includes the following:

For Scope 1 emission reduction:

- Conversion of airport owned conventional vehicles (except fire tenders and tugs designated for towing of cargo and passenger transport) to Electric Vehicles (EVs) for Airport Operator's Fuel emission reduction.
- Conversion of high Global Warming Potential (GWP) refrigerants to lower GWP
 refrigerants
- Conversion of CO2 type fire extinguishers to non-CO2 based extinguishers (to the extent possible, considering mandatory safety requirements)
- Developing green belts to create carbon sinks (part of our long-term strategy) For Scope 2 emission reduction:
- Installation of on-site solar/wind power plants/hybrid wind and solar plants.
- Purchase of green electricity via Power Purchase Agreements from renewable energy suppliers
- Purchase of Renewable Energy Certificate (REC)
- Undertaken energy audits to identify potential improvement areas for optimizing operations and conserving energy.
- Conversion of conventional lights with LEDs
- Implement zone monitoring system to improve air-conditioning efficiency.
- Use of variable frequency drives (VFDs) for pumps, motors & chillers for improving energy efficiency.

By implementing the above-mentioned initiatives, we have reduced our Scope 1 to the maximum extent and Scope 2 emissions as zero and we are in process to offset the residual emissions to achieve operational net zero.

In addition to these initiatives, we will endeavor to reduce our scope 3 emission footprint through the following measures:

- Engage with stakeholders to influence them to convert their existing GSEs and GSVs except for tugs designated for towing of cargo and passenger transport to EVs, optimize operations to reduce energy and ATF (Aviation Turbine Fuel) consumption.
- Provide Electric Vehicle (EV) charging infrastructure at our airports (both airside and landside).
- Install Bridge Mounted Equipment (BME) such as Fixed Electric Ground Power Units (FEGP) and Preconditioned Air (PCA) supply systems at Passenger Boarding Bridges.
- Adopted Airport Collaborative Decision Making (A-CDM) system to improve operational efficiency.

These interventions will assist us in reducing our environmental footprint, which is essential for ensuring sustainable operations and for making a positive impact.

v CSR

MIAL is committed to implemented CSR activity through Adani Foundation, inline to "The Company's Act 2013 in the field of Education, Community Health, Sustainable Livelihood Development, Community Infrastructure Development, Skill Development for the overall improvement of living standards in the region.

∨ Other environment activates

- Environmental awareness programs have been conducted during the year for employees at Mumbai Airport.
- World Environment Day Celebration from 4th June to 8th June 2022 (E-Banner Display at Main gate, Online Quiz competitions arranged during week, sapling are distributed among the passenger (terminal 1 and 2).
- Mumbai International Airport Limited has grabbed Prestigious "Innovation champion awards" under the Wings India Awards,2024 for outstanding achievement in environment Innovation.