Chhatrapati Shivaji Maharaj

Ref: MIAL/ENV/23/33

1st Dec 2023

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

Dear Sir,

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

Ref: - Environment clearance File no. 10-5/2007-IA-III dated 2nd June 2017 & 3rd April 2007.

With reference to the above subject please find enclosed compliance 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 portal therefore this is being submitted through email.

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

Mr. Ashwin Noronha
Chief Operating Officer (COO)

Encl: Half yearly Environmental Compliance report.

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

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

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

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

Registered office: Office of the Airport Director, Terminal-1B, CSMI Airport, Mumbai – 400099, Maharashtra, India

Environmental Clearance

Six Monthly Compliance Report

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

of

Chhatrapati Shivaji Maharaj International Airport (CSMIA)

For
Period of April- 2023 – September- 2023

SIX MONTHLY COMPLIANCE REPORT
(Period of April to September 23 of FY 23 -24)
Present Status of Compliance to Conditions stipulated in EC F.No. 10-5/2007-IA-III dated 2nd June 2017

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

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

S.N.	Conditions	Compliance Status
(A) Specific Condition		
(i)	As proposed, this environmental clearance is only for up-gradation of Chhatrapati Shivaji International Airport.	Noted
(ii)	The project proponent shall obtain clearance from DGCA and AAI for safety and project facilities.	Complied. Aerodrome license have been obtained from DGCA. License copy is attached as Annexure - 01.
(iii)	Construction site shall be adequately barricaded before the construction begins.	Complied. All construction sites are barricaded with metallic sheets before initiating construction activities. The same will be complied for remaining proposed developments in future. Refer Annexure - 02 of Barricading practices
(iv)	Soil and other construction material shall be sprayed with water prior to any loading, unloading or transfer operations so as to maintain the dusty material wet.	Complied. Water sprinkling is carried out on the soil and construction material during high wind and in summer to ensure no dust pollution while loading & unloading. The same will be 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

S.N.	Conditions	Compliance Status
		during transportation. The same will be complied for remaining proposed developments in future. Annexure – 03 for practices followed
(vi)	The excavation working area shall be sprayed with water after operation so as to maintain the entire surface wet.	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 analyzed for fertility to determine further usage as per conditions.
(viii)	A detailed drainage plan for rainwater shall be drawn up and implemented.	Complied. Detailed drainage plan for rainwater has been implemented Approx. 45000-meter drainage network provided.
(ix)	Groundwater abstraction and rainwater recharge shall be as may be prescribed by the CGWA. A clearance from CGWA shall be obtained in this regard.	Not applicable.
(x)	Noise from vehicles and power machinery and equipment onsite shall not exceed the prescribed limit. Equipment should be regularly serviced. Attention shall also be given to muffler maintenance and enclosure of noisy equipment's.	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 -04 for 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. shall be reused /recycled or	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
	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 sulfur diesel is being used. Also, DG stack has been provided near runway as per aviation safety. Refer Annexure -05 of photos DG sets.
(xiv)	Aircraft maintenance, sensitivity of the location where activities are undertaken and control of runoff of potential contaminants, chemicals etc. shall be properly implemented and reported.	Complied. Contingency plan for spills prevention is in place & implemented. Refer Annexure -06 Contingency plan for spills prevention.
(xv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. 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 with order to comply the condition.
(xvii)	Storm water drains are to be built for discharging storm water from airfield to avoid flooding/water logging in project area during monsoon season/cloud bursts.	Complied. Detailed drainage plan for rainwater has been implemented Approx. 45000-meter drainage network provided.

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 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 April-23 to September- 23.
(xx)	Wastewater generation shall not exceed from 10 MLD and treated in the STP. Treated sewage shall be recycled / reused for cooling tower makeup, flushing and horticulture.	Complied. Wastewater generation is well within the limit average 2.64 MLD sewage generated in April-23 to September-23. The treated water is fully recycled in flushing, HVAC and gardening.
(xxi)	Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. Refer Annexure -05 Acoustic enclosures of DG sets.
(xxii)	During airport operation period, noise shall be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.	Complied. EMP is being implemented at site Ambient air quality and noise levels are well within the limits. Parameters are being monitored by NABL approved third party Laboratory and continuous noise monitoring system. Refer Annexure-04 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), wood, waste oil and solvents (from	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

S.N.	Conditions	Compliance Status
	maintenance and engineering operation), kitchen wastes and vegetable oils (from caterers) shall be carried out.	segregation and further channelize for recycling and disposal according to rule. The hazardous wastes are collected and stored at designated storage area and disposed-off at MPCB authorized TSDF and recyclers.
(xxiv)	Traffic congestion near the entry and exit points from the roads adjoining the airport shall be avoided. Parking should be fully internalized, and no public space should be utilized.	Complied. 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 building project category by CII. The E-waste generated due to used CFL/TFL are disposed off to authorized recyclers. Annexure-08 Certificate of Green Building Platinum Rating.
(xxvi)	An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district.	Complied. Disaster management plan and AERP is already in place and being implemented.
(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.
(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.
(B) GENERAL CONDITIONS		

S.N.	Conditions	Compliance Status
(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. Consent to Establish vide letter no BO/CAC-cell/Format1.0/CAC/UAN No.0000136644/CE/2208000664 dated 15.08.2022 & it is valid till dated 14.08.2027 - complied.
(ii)	No further modification of expansion in the project shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Agreed and complied
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (day time) and 70dBA (night time)	Complied. Regular ambient noise monitoring is carried out in and around airport area and the noise levels measured are conforming to the standards prescribed under EPA Rules, 1989. Refer Annexure -04 for Monitoring reports.
(iv)	A separate Environmental Management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring function.	Complied. An independent Environment department is functioning under the leadership of Chief Operating Officers and assisted by two Managers. A full-fledged laboratory for testing water parameters is operational and also ambient air, ambient noise levels are continuously monitored through permanently installed stations.
(v)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution	Complied.

S.N.	Conditions	Compliance Status
	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.	Separate budget for environmental protection measures and initiatives is allocated every year. Opex: Approx. INR 30.87 Cr was spent in FY 2023–24 for STP O&M, waste disposal, greenery maintenance, etc. Also had capex investment to implement the green initiative to reduce carbon management in FY 2023–24, approximately INR 98.80 Lacs for EV vehicles, and other initiatives.
(vi)	The regional office of this Ministry/CPCB/SPCB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with the statistical interpretation shall be submitted to them regularly.	Complied. Compliance data is being submitted along with six monthly compliance report. Last compliance report was submitted on 31st May 2023, refer Annexure -9 letter of previous compliance report submission.
(vii)	A copy of clearance letter shall be sent by the proponent to be concerned Panchayat / Zila parishad / Municipal corporation, urban local body and the local NGO, if any from whom any suggestion / representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company the proponent.	Complied. Copy of grievance letter is also available on the company is website - https://csmia.adaniairports.com/all-reports.aspx The copy of clearance letter was submitted to MMRDA & Collector vide letter no MIAL/DIR(UP)/158(B)/2017/173 dated 28th June 2017 and MIAL/DIR(UP)/158(B)/2s017/175 dated 28th 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. Last six-monthly compliance report submitted to Ministry/CPCB/MPCB by letter no. MIAL/ENV/23/19 dated: 31st May, 2023. Refer Annexure -09 letter of previous compliance report submission.

S.N.	Conditions	Compliance Status
(ix)	The environmental statement for each financial year ending 31st March in form –V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional office of MoEF&CC by e-mail.	Complied. The Environmental statement for FY 2022-23 is submitted on MPCB portal on 12th September 2023. It is available also available on the website - https://csmia.adaniairports.com/all-reports.aspx Refer Annexure – 10 Environment statement Form- V for FY 21-22.
(x)	The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in. This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.	Complied. Communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13th December 2017.
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing of land development work.	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	Agreed to Comply

S.N.	Conditions	Compliance Status
	in the matter of Goa Foundation Vs Union of India in writ petition (Civil) No 460 of 2004 as may be applicable to this subject.	

Annexure -01 Aerodrome License.

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

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

AERODROME LICENSE - PUBLIC USE

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

Mumbai International Airport Limited
(Name of License holder)

for

Chhatrapati Shivaji Maharaj International Airport, Mumbai
(Name & Place of Aerodrome)

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

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

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

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

This Aerodrome License is not transferable.

Date of issue: 01st November 2018
New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

License No. AL/Public/ 005

SCHEDULE-II

VALIDITY OF THE LICENSE

Chhatrapati Shivaji Maharaj International Airport, Mumbai

(Name & Place of Aerodrome)

FROM	TO	SIGNATURE
03.05.2018	02.05.2020	Director General of Civil Aviation India
03 MAY 2020	02 MAY 2022	Director General of Civil Aviation India
03 MAY 2022	02 MAY 2024	Director General of Civil Aviation India

Annexure -02 Barricading practices.

Annexure - 02 Barricading practices at Construction site

Annexure- 03 Construction material truck covered by impervious sheeting.

Annexure -03 – Construction Material Trucks are covered with tarpaulin

Annexure- 04 Environment conditions monitoring reports.

Ashwamedh Engineers & Consultants
Laboratory Services Division
TC-5509
Ashwamedh Engineers & Consultants
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Indira Nagar, Nashik - 422009, Maharashtra, India
(Near Guru Gobind Singh School, Near Pandav Nagar,
Turn at Sai Mandir Chowk / Samrat Sweet Turning)
sales@ashwamedh.net +91-253-2392225

NOISE LEVEL MEASURMENT REPORT

Sample ID N/04/23/6087	Report No N/04/23/6087	Report Date	17/04/2023
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.5700316635 Date-29.10.2022	Date of Monitoring	11/04/2023 to 12/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.5	65.1	67.9	60.7	59.7	61.8	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/3556 [3] Issue no. 4, Issue date 01.04.2018
2	STP Terminal- 1	68.6	67.5	69.8	61.2	60.0	62.5	
3	CCR-2	65.4	64.7	66.2	58.4	57.6	59.2	
4	Apron Control	69.4	68.9	70.0	63.7	62.5	64.9	
5	6 No Gate (Sahar)	69.2	68.5	70.0	63.7	62.8	64.7	
6	J 8	65.8	64.9	66.8	57.3	56.5	58.2	
7	Runway 14 End	66.3	65.2	67.5	59.6	58.9	60.5	
8	Project Office (Sahar)	63.4	62.2	64.6	54.8	53.9	55.7	
9	Cargo 4D	66.3	65.2	67.5	62.7	61.9	63.6	
10	OWC Kurla	64.4	63.1	65.7	57.3	56.1	58.5	

Limit

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

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

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

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

Ashwamedh Engineers & Consultants
Laboratory Services Division
TC-5509

Ashwamedh Engineers & Consultants
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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

NOISE LEVEL MEASURMENT REPORT

Sample ID: N/05/23/5839	Report No.: N/05/23/5839	Report Date	24/05/2023
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.5700316635 Date-29.10.2022	Date of Monitoring	18/05/2023 to 19/05/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/2205000810 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	68.4	67.8	69.1	59.4	58.7	60.1	CPCB Protocol for Ambient Level Noise Monitoring July AEC/C/SAP/SAM/358 06 Issue no. 4 issue date 01.04.2016
2	STP Terminal- 1	65.3	64.2	66.5	63.3	62.5	64.2	
3	CCR-2	67.5	66.9	68.1	60.5	59.4	61.7	
4	Apron Control	66.5	65.1	67.0	59.2	58.2	60.3	
5	6 No Gate (Sahar)	68.6	65.7	69.7	63.7	62.8	64.7	
6	J 8	63.5	62.8	64.2	61.3	60.1	62.5	
7	Runway 14 End	68.2	67.0	69.5	62.6	61.7	63.6	
8	Project Office (Sahar)	61.3	60.3	62.5	58.2	57.2	59.7	
9	Cargo 4D	68.6	67.5	69.8	59.4	58.1	60.8	
10	OWC Kurla	62.3	61.6	63.1	54.6	53.8	55.4	

Limit

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

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

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants Laboratory Services Division

End of Report

Note:
1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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4. There are no additions to, deviation or exclusions from the method.

Ashwamedh Engineers & Consultants
Laboratory Services Division
TC-5509

Ashwamedh Engineers & Consultants
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NOISE LEVEL MEASURMENT REPORT

Sample ID: N/06/23/5382	Report No: N/06/23/5382	Report Date	14/06/2023
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.5700316635 Date-29.10.2022	Date of Monitoring	08/06/2023 to 09/06/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	69.5	68.6	70.9	62	60.8	63.2	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/E/SAP/SAM/356 DE, Issue no. 4, Issue date 01.04.2018
2	STP Terminal- 1	66.5	65.4	67.7	58.8	58.3	59.4	
3	CCR-2	68.3	67.5	69.2	59.6	59.1	60.2	
4	Apron Control	65.4	64.6	66.2	57.6	56.4	58.8	
5	6 No Gate (Sahar)	68.3	67.8	68.9	59.7	58.9	60.6	
6	J 8	64.6	63.8	65.4	54.9	54.1	55.8	
7	Runway 14 End	69	68.7	69.3	63.7	62.8	64.6	
8	Project Office (Sahar)	69.1	67.9	70.4	56.8	55.9	57.7	
9	Cargo 4D	68.6	68.2	69.1	59.50	58.2	60.9	
10	OWC Kurla	68.5	67.4	69.6	56	55.2	56.8	

Limit

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

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

Nimad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants Laboratory Services Division

End of Report

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NOISE LEVEL MEASURMENT REPORT

Sample ID: N/07/23/5785	Report No.: N/07/23/5785	Report Date	24/07/2023
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	SO. No. 5700330185	Date of Monitoring	18/07/2023 to 19/07/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	69.2	68.4	70.0	63.8	62.9	64.8	CPCB Protocol for Ambient Level Noise Monitoring, Jan AEC/C/SAP/SAM/2508 3E Issue no 4 Issue date 03.04.2018
2	STP Terminal- 1	66.2	65.2	67.3	56.2	55.2	57.3	
3	CCR-2	66.3	65.4	67.3	59.6	58.5	60.8	
4	Apron Control	67.3	66.2	68.4	59.6	58.4	60.9	
5	6 No Gate (Sahar)	68.6	67.4	69.7	62.7	61.5	63.2	
6	J 8	59.6	58.7	60.4	53.2	52.1	54.3	
7	Runway 14 End	65.4	64.3	66.5	60.6	59.8	61.5	
8	Project Office (Sahar)	67.2	66.1	68.4	58.5	57.8	59.2	
9	Cargo 4D	66.2	65.0	67.4	59.4	58.2	60.7	
10	OWC Kurla	63.5	62.3	64.7	57.8	56.7	58.9	

Limit

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

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

Ninad Soundankar
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NOISE LEVEL MEASURMENT REPORT

Sample ID: N/09/23/5018	Repon No: N/09/23/5018	Report Date	05/09/2023
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-22.08.2003	Date of Monitoring	29/08/2023 to 30/08/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/2205000810 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.2	65.0	67.5	62.7	61.5	63.9	CPCB Protocol for Ambient Level Noise Monitoring July AEC/E/SAP/SAM/358 35, Issue no. 4, Issue date 01.04.2016
2	STP Terminal- 1	63.5	62.5	64.6	59.5	58.9	60.2	
3	CCR-2	68.5	67.8	69.3	63.3	62.5	64.1	
4	Apron Control	65.6	64.5	66.7	61.2	60.4	62.0	
5	6 No Gate (Sahar)	68.7	67.5	69.9	63.5	62.8	64.2	
6	J B	63.4	62.5	64.3	56.5	55.2	57.8	
7	Runway 14 End	66.1	65.0	67.3	62.5	61.7	63.4	
8	Project Office (Sahar)	65.3	64.0	66.6	58.3	57.3	59.3	
9	Cargo 4D	67.2	66.1	68.3	63.7	62.9	64.5	
10	OWC Kurla	64.3	63.6	65.1	57.1	56.0	58.3	

Limit

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

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

Ninad Soundankar
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NOISE LEVEL MEASURMENT REPORT

Sample ID: N/09/23/5481	Report No.: N/09/23/5481	Report Date	22/09/2023
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	14/09/2023 to 15/09/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound level Meter
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date.13.05.2022	Instrument ID	AEC/EQ/2091

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Day Time (6AM-10PM) dB (A)			Night Time (10PM -6AM) dB (A)			Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.4	65.1	67.8	61.8	60.9	62.7	CPCB Protocol for Ambient Level Noise Monitoring July 2015 AEC/C/SAP/SAM/35 & 36
2	STP Terminal- 1	63.3	62.3	64.4	56.7	55.9	57.6	
3	CCR-2	68.3	67.1	69.5	63.2	62.4	64	
4	Apron Control	65.5	64.3	66.7	59.5	58.3	60.8	
5	6 No Gate (Sahar)	69.3	68.7	70.0	63.5	62.3	64.5	
6	J 8	61.5	60.3	62.8	51.5	50.7	52.4	
7	Runway 14 End	68.6	67.5	69.7	62.3	61.3	63.4	
8	Project Office (Sahar)	62.4	61.7	63.1	54.5	53.4	55.6	
9	Cargo 4D	65.6	64.5	66.7	61.3	60.4	62.3	
10	OWC Kurla	66.5	65.8	67.2	55.5	54.8	56.2	

Limit

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

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

Nihad Soundankar
Technical Manager (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/23/5433	Report No.: AA/04/23/5433	Report Date	18/04/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	11/04/2023 to 12/04/2023
Sample Quantity/ Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	13/04/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/04/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	18/04/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11 km/h	W	(Max./Min.):67/62%	(Max./Min.) 34/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.3**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**28.1**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**80**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**38**	60	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page no 15: 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.10**	4	mg/m³	CPCB Guidelines, Volume II 37/2012-13, Page no 16: 2013
Ammonia (NH_3)	**30**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page no 28: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Nimad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/23/5434	Report No: AA/04/23/5434	Report Date	18/04/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	11/04/2023 to 12/04/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	13/04/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/04/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	18/04/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11 km/h	W	(Max./Min.):67/62%	(Max./Min.) 34/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**7.3**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**26.2**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**76**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**33**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no 15, 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1/ 6.3.2
Carbon Monoxide (CO)	**1.03**	4	mg/m³	CPCB Guidelines, Volume I, 37/2012-13, Page no 16, 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no 35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
#: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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Technical Manager (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/23/5435	Report No: AA/04/23/5435	Report Date	18/04/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	11/04/2023 to 12/04/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	13/04/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/04/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	18/04/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11 km/h	W	(Max./Min.):67/62%	(Max./Min.) 34/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**10.4**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**31.4**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**92**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**52**	60	µg/m³	CPCB Guidelines, Volume I 38/2012-13, Page no 15: 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.56**	4	mg/m³	CPCB Guidelines, Volume I: 37/2012-13, Page no 16: 2013
Ammonia (NH_3)	**33**	400	µg/m³	CPCB Guidelines, Volume I 38/2012-13, Page no 35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
#: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Ashwamedh Engineers & Consultants Laboratory Services Division

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Technical Manager (Chemical)
Reviewed & Authorised by

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/04/23/5436	Report No: AA/04/23/5436	Report Date	18/04/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	11/04/2023 to 12/04/2023
Sample Quantity/ Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	13/04/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/04/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	18/04/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11 km/h	N-W	(Max./Min.): 72/69%	(Max./Min.) 34/29°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**9.4**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**26.8**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**79**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**37**	60	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page no 15: 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.0**	4	mg/m³	CPCB Guidelines, Volume I: 37/2012-13, Page no 16: 2013
Ammonia (NH_3)	**28.5**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page no 35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Ninad Soundankar
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/23/5721	Report No.: AA/05/23/5721	Report Date	25/05/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Project Office Sahar	Date-Sampling	18/05/2023 to 19/05/2023
Sample Quantity/ Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	20/05/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	20/05/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/05/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.6 km/h	S-E	(Max./Min.):70/68%	(Max./Min.) 32/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**10.4**	80	$\mu g/m^3$	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**31.1**	80	$\mu g/m^3$	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**84**	100	$\mu g/m^3$	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**42**	60	$\mu g/m^3$	CPCB Guidelines, Volume I,36/2012-13, Page no.15: 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	$\mu g/m^3$	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.24**	4	mg/m^3	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**36**	400	$\mu g/m^3$	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, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/23/5722	Report No.: AA/05/23/5722	Report Date	25/05/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	18/05/2023 to 19/05/2023
Sample Quantity/ Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	20/05/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	20/05/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/05/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.8 km/h	S-E	(Max./Min.):71/68%	(Max./Min.) 32/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.3**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**28.4**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**79**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**36**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no.15, 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.11**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no.35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/23/5723	Report No.: AA/05/23/5723	Report Date	25/05/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kurla	Date-Sampling	18/05/2023 to 19/05/2023
Sample Quantity/ Packing	PM_{10}, Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	20/05/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	20/05/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/05/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.8 km/h	S-E	(Max./Min.):71/68%	(Max./Min.):32/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**12.5**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**32.8**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**88**	100	µg/m³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**45**	60	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no.15, 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.44**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16 2013
Ammonia (NH_3)	**30.8**	400	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page no.35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA: Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/05/23/5724	Report No.: AA/05/23/5724	Report Date	25/05/2023
Name & Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	18/05/2023 to 19/05/2023
Sample Quantity/ Packing	PM_{10}: Lead: 1 x 3 no. Filter paper $PM_{2.5}$: 1 x 1 no. Filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	20/05/2023
Sampling Procedure	As per Method Reference	Date-Start of Analysis	20/05/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Completion of Analysis	25/05/2023
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			

Meteorological Data / Environmental Conditions

Average Wind velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.8 km/h	S-E	(Max./Min.):71/68%	(Max./Min.):32/28°C	24 h

Parameter	Results	NAAQS # 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**9.4**	80	$\mu g/m^3$	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**27.6**	80	$\mu g/m^3$	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**75**	100	$\mu g/m^3$	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5 µm) or $PM_{2.5}$	**34**	60	$\mu g/m^3$	CPCB Guidelines, Volume I 36/2012-13, Page no.15: 2013
Lead (Pb)	**BLQ (LOQ:0.02)**	1	$\mu g/m^3$	EPA/625/R-96/010 a Compendium Method IO- 3.1 & 3.2
Carbon Monoxide (CO)	**1.08**	4	mg/m^3	CPCB Guidelines, Volume I: 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**27**	400	$\mu g/m^3$	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, PM_{10}, $PM_{2.5}$, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/5377	Report No. AA/06/23/5377	Report Date	18/06/2023
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	Ambient Air
Sampling Location	Project Office Sahar	Date - Sampling	08/06/2023to 09/06/2023
Sample Quantity / Packing	PM_{10}, Pb: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	12/06/2023
Sampling Procedure	As per Method reference	Date - Start of Analysis	12/06/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date - Completion of Analysis	17/06/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10.3 km/h	S-W	(Max./Min.): 75/63%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**9.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**30**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**84**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**41**	60	µg/m³	CPCB Guideline Volume I 38/2012-13 Page No.15:2012
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.28**	4	mg/m³	CPCB Guidelines: Volume II: 2T/2012-13, Page no.16: 2013
Ammonia (NH_3)	**35.9**	400	µg/m³	CPCB Guidelines: Volume I 38/2012-13, 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

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Sample ID : AA/06/23/5377	Report No. AA/06/23/5377	Report Date	18/06/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/5378	Report No. AA/06/23/5378	Report Date	18/06/2023
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	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date - Sampling	08/06/2023 to 09/06/2023
Sample Quantity / Packing	PM_{10}, Pb: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	12/06/2023
Sampling Procedure	As per Method reference	Date - Start of Analysis	12/06/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date - Completion of Analysis	17/06/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10.3 km/h	S-W	(Max./Min.): 75/63%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**28.1**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**79**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**37**	60	µg/m³	CPCB Guideline, Volume I 38/2012 -13, Page No.6/2012
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.1**	4	mg/m³	CPCB Guidelines, Volume II, 27/2012 -13, Page no.16, 2012
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I 38/2012 -13, Page No 25, 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

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Sample ID : AA/06/23/5378	Report No. AA/06/23/5378	Report Date	18/06/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/5379	Report No. AA/06/23/5379	Report Date	18/06/2023
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	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	08/06/2023 to 09/06/2023
Sample Quantity / Packing	PM_{10}, Pb: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	12/06/2023
Sampling Procedure	As per Method reference	Date - Start of Analysis	12/06/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date - Completion of Analysis	17/06/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10.3 km/h	S-W	(Max./Min.): 75/63%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**12.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**33.7**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**94**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**54**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 E 3.7
Carbon Monoxide (CO)	**1.68**	4	mg/m³	CPCB Guidelines, Volume II 27/2012-13, Page no.16, 2012
Ammonia (NH_3)	**38.9**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No.35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

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Sample ID : AA/06/23/5379	Report No. AA/06/23/5379	Report Date	18/06/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/5380	Report No. AA/06/23/5380	Report Date	18/06/2023
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	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date - Sampling	08/06/2023to 09/06/2023
Sample Quantity / Packing	PM_{10}, Pb: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	12/06/2023
Sampling Procedure	As per Method reference	Date - Start of Analysis	12/06/2023
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date - Completion of Analysis	17/06/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10.3 km/h	S-W	(Max./Min.): 75/63%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**10.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**26.8**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**79**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**38**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1**	4	mg/m³	CPCB Guidelines, Volume I, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**28.4**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No.35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

Nirad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

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Sample ID : AA/06/23/5380	Report No. AA/06/23/5380	Report Date	18/06/2023

Ninad Soundankar
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/07/23/5673	Report No. AA/07/23/5673	Report Date	26/07/2023
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	Ambient Air
Sampling Location	Project Office Sahar	Date - Sampling	18/07/2023to 19/07/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	20/07/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	20/07/2023
Order Reference	Work Order No. 5700330185	Date - Completion of Analysis	25/07/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.6 km/h	S-W	(Max./Min.): 79/67%	(Max./Min.): 30/29°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**26.2**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**78**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**37**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No.15-2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.06**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013
Ammonia (NH_3)	**30.6**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No.25, 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
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Sample ID : AA/07/23/5673	Report No. AA/07/23/5673	Report Date	26/07/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/07/23/5674	Report No. AA/07/23/5674	Report Date	26/07/2023
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	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date - Sampling	18/07/2023to 19/07/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	20/07/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	20/07/2023
Order Reference	Work Order No. 5700330185	Date - Completion of Analysis	25/07/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.6 km/h	S-W	(Max./Min.): 79/67%	(Max./Min.): 29/26°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**6.1**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**22.5**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**74**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**33**	60	µg/m³	CPCB Guideline, Volume I:36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	(PA/62S/R-98/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	**0.92**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

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Sample ID : AA/07/23/5674	Report No. AA/07/23/5674	Report Date	26/07/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/07/23/5675	Report No. AA/07/23/5675	Report Date	26/07/2023
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	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	18/07/2023to 19/07/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	20/07/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	20/07/2023
Order Reference	Work Order No. 5700330185	Date - Completion of Analysis	25/07/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.6 km/h	S-W	(Max./Min.): 79/67%	(Max./Min.): 30/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**10.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**29.2**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**80**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**39**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.28**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013
Ammonia (NH_3)	**31.4**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No 35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

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Sample ID : AA/07/23/5675	Report No. AA/07/23/5675	Report Date	26/07/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/07/23/5676	Report No. AA/07/23/5676	Report Date	26/07/2023
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	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date - Sampling	18/07/2023to 19/07/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	20/07/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	20/07/2023
Order Reference	Work Order No. 5700330185	Date - Completion of Analysis	25/07/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
9.6 km/h	S-W	(Max./Min.): 79/67%	(Max./Min.): 30/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**7.1**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**24.1**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**70**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**31**	60	µg/m³	CPCB Guideline, Volume I 38/2012-13, Page No 15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**0.8**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**25.4**	400	µg/m³	CPCB Guidelines, Volume I 38/2012-13, 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

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Sample ID : AA/07/23/5676	Report No. AA/07/23/5676	Report Date	26/07/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/08/23/5959	Report No. AA/08/23/5959	Report Date	06/09/2023
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	Ambient Air
Sampling Location	Project Office Sahar	Date - Sampling	29/08/2023to 30/08/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	31/08/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	05/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10 km/h	S-W	(Max./Min.): 72/60%	(Max./Min.): 31/28°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**9.8**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**28.5**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**80**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**38**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010a Compendium Method IO-3.1 & 3.4
Carbon Monoxide (CO)	**1.34**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**30.6**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No.35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

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Sample ID : AA/08/23/5959	Report No. AA/08/23/5959	Report Date	06/09/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/08/23/5960	Report No. AA/08/23/5960	Report Date	06/09/2023
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	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date - Sampling	29/08/2023 to 30/08/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	31/08/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	05/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10 km/h	S-W	(Max./Min.): 72/60%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**7.3**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**24.1**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**73**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**34**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No IS 2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/9-96/010a Compendium Method IO-3.1 & 3.4
Carbon Monoxide (CO)	**1.02**	4	mg/m³	CPCB Guidelines, Volume II 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No 35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

Nilad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

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Sample ID : AA/08/23/5960	Report No. AA/08/23/5960	Report Date	06/09/2023

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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Laboratory Services Division

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/08/23/5961	Report No. AA/08/23/5961	Report Date	06/09/2023
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	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	29/08/2023 to 30/08/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	31/08/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	05/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10 km/h	S-W	(Max./Min.): 72/60%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**11**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**29.6**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**83**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**44**	60	µg/m³	CPCB Guideline, Volume I 36/2012-13, Page No 15 2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010a Compendium Method IO-3.1 & 2.4
Carbon Monoxide (CO)	**1.49**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16, 2013
Ammonia (NH_3)	**31.8**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No 35, 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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
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Reviewed & Authorised by

Ashwamedh Engineers & Consultants
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Sample ID : AA/08/23/5961	Report No. AA/08/23/5961	Report Date	06/09/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/08/23/5962	Report No. AA/08/23/5962	Report Date	06/09/2023
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	Ambient Air
Sampling Location	Sarvodaya Hospital (Gharkopar)	Date - Sampling	29/08/2023to 30/08/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	31/08/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	05/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
10 km/h	S-W	(Max./Min.): 72/60%	(Max./Min.): 31/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.6**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**27.4**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**76**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**35**	60	µg/m³	CPCB Guideline, Volume I:36/2012-13, Page No:15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010a Compendium Method IO-3.1 & 3.4
Carbon Monoxide (CO)	**1.1**	4	mg/m³	CPCB Guidelines, Volume II: 37/2012-13, Page no:16: 2013
Ammonia (NH_3)	**26.9**	400	µg/m³	CPCB Guidelines, Volume I:36/2012-13, Page No:35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

Nirad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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Sample ID : AA/08/23/5962	Report No. AA/08/23/5962	Report Date	06/09/2023

Nina Sondhiya
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/5463	Report No. AA/09/23/5463	Report Date	22/09/2023
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	Ambient Air
Sampling Location	Project Office Sahar	Date - Sampling	14/09/2023to 15/09/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	16/09/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	21/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11.2 km/h	S-E	(Max./Min.): 75/70%	(Max./Min.): 33/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**11**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**30**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**83**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**40**	60	µg/m³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.41**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**33.7**	400	µg/m³	CPCB Guidelines, Volume I 36/2012-13, Page No.35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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
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Reviewed & Authorised by

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Sample ID : AA/09/23/5463	Report No. AA/09/23/5463	Report Date	22/09/2023

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Laboratory Services Division

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/5464	Report No. AA/09/23/5464	Report Date	22/09/2023
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	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date - Sampling	14/09/2023to 15/09/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	16/09/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	21/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11.2 km/h	S-E	(Max./Min.): 75/70%	(Max./Min.): 33/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**7.3**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**26.7**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**70**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**31**	60	µg/m³	CPCB Guideline, Volume I 38/2012-13, Page No 15,2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.11**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16, 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	400	µg/m³	CPCB Guidelines, Volume I 38/2012-13, 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

Nimad Soundankar
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End of Report

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Sample ID : AA/09/23/5464	Report No. AA/09/23/5464	Report Date	22/09/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/5465	Report No. AA/09/23/5465	Report Date	22/09/2023
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	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	14/09/2023to 15/09/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	16/09/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	21/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11.2 km/h	S-E	(Max./Min.): 75/70%	(Max./Min.): 33/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**12.2**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**32.5**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**85**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**47**	60	µg/m³	CPCB Guideline, Volume I 26/2012-13, Page No 15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.55**	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no 16: 2013
Ammonia (NH_3)	**34.9**	400	µg/m³	CPCB Guidelines, Volume I 38/2012-13, 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

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Sample ID : AA/09/23/5465	Report No. AA/09/23/5465	Report Date	22/09/2023

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/5466	Report No. AA/09/23/5466	Report Date	22/09/2023
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	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date - Sampling	14/09/2023to 15/09/2023
Sample Quantity / Packing	PM_{10}, Lead: 1 x 3 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2: 30 ml x 6 no. plastic bottle NO_2: 30 ml x 6 no. plastic bottle NH_3: 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	16/09/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	21/09/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
11.2 km/h	S-E	(Max./Min.): 75/70%	(Max./Min.): 33/27°C	24 h

Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO_2)	**8.6**	80	µg/m³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO_2)	**25.2**	80	µg/m³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM_{10}	**74**	100	µg/m³	IS 5182 (Part 23):2006
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**33**	60	µg/m³	CPCB Guideline Volume I 36/2012-13 Page No 15:2013
Lead (as Pb)	**BLQ (LOQ:0.02)**	1	µg/m³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	**1.21**	4	mg/m³	CPCB Guidelines. Volume II. 37/2012-13. Page no.16: 2013
Ammonia (NH_3)	**28.8**	400	µg/m³	CPCB Guidelines. Volume I 36/2012-13. Page No.35: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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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TC-5509

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Sample ID : AA/09/23/5466	Report No. AA/09/23/5466	Report Date	22/09/2023

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Note:
1. The result listed refer 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, deviations or exclusions from the method.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3298	Report No. N/04/23/3298N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700016635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
CA Terminal Gate No.8 DG 125 KVA							
1	East	11:00	A1	89	B1	64	25
2	West	11:05	A2	86	B2	60	26
3	South	11:10	A3	91	B3	65	26
4	North	11:20	A4	88	B4	64	24
			Average	**88.5**	**Average**	**63.25**	**25.25**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3300	Report No.: N/04/23/3300N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1 C Power House DG 1 1010 KVA							
1	East	11:00	A1	99	B1	74	25
2	West	11:05	A2	96	B2	70	26
3	South	11:10	A3	92	B3	66	26
4	North	11:20	A4	94	B4	69	25
			Average	**95.25**	**Average**	**69.75**	**25.5**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3303	Report No: N/04/23/3303N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date 29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1 C Power House DG II 625 KVA							
1	East	1100	A1	96	B1	70	26
2	West	1105	A2	98	B2	73	25
3	South	1110	A3	88	B3	64	24
4	North	1120	A4	92	B4	66	26
			Average	**93.5**	**Average**	**68.25**	**25.25**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3304	Report No: N/04/23/3304N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG III 1010 KVA							
1	East	11:00	A1	92	B1	67	25
2	West	11:05	A2	95	B2	68	27
3	South	11:10	A3	98	B3	72	26
4	North	11:20	A4	96	B4	71	25
			Average	**95.25**	**Average**	**69.5**	**25.75**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3305	Report No.: N/04/23/3305N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1C Power House DG IV 2500 KVA							
1	East	11:00	A1	90	B1	63	27
2	West	11:05	A2	96	B2	71	25
3	South	11:10	A3	99	B3	73	26
4	North	11:20	A4	98	B4	73	25
			Average	**95.75**	**Average**	**70**	**25.75**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3301	Report No: N/04/23/3301N	Report Date	17/04/2023
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 /Type	DG Set VI Noise Insertion Loss
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monitoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018	Sr. No.	2016083645

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1 A Power House DG I 625 KVA							
1	East	11:00	A1	90	B1	66	24
2	West	11:05	A2	94	B2	68	26
3	South	11:10	A3	98	B3	71	27
4	North	11:20	A4	95	B4	70	25
			Average	**94.25**	**Average**	**68.75**	**25.5**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3302	Report No.: N/04/23/3302N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
T-1 A Power House DG III 625 KVA							
1	East	11:00	A1	94	B1	69	25
2	West	11:05	A2	99	B2	73	26
3	South	11:10	A3	98	B3	73	25
4	North	11:20	A4	96	B4	69	27
			Average	**96.75**	**Average**	**71**	**25.75**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3299	Report No.: N/04/23/3299N	Report Date	17/04/2023
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 /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date-Monitoring	13/04/2023
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

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
MLCL Building DG 380 KVA							
1	East	11:00	A1	89	B1	64	25
2	West	11:05	A2	93	B2	66	27
3	South	11:10	A3	97	B3	71	26
4	North	11:20	A4	95	B4	70	25
			Average	**93.5**	**Average**	**67.75**	**25.75**
Note: Standards as per MPCB Consent Condition 25 dB (A) insertion Loss.							

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3463	Report No. N/07/23/3463N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
ICZ Area DG Set 500 KVA Nos 7							
1	East	11:00	A1	85.1	B1	59.1	26
2	West	11:05	A2	87.3	B2	62.3	25
3	South	11:10	A3	90.8	B3	63.8	27
4	North	11:20	A4	86.6	B4	60.6	26
			Average	**87.45**	**Average**	**61.45**	**26**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3464	Report No. N/07/23/3464N	Report Date	24/07/2023
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 /Type	DG Set VI Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
Ware House Portable House DG 125 KVA							
1	East	11:00	A1	91.0	B1	64	27
2	West	11:05	A2	89.2	B2	64.2	25
3	South	11:10	A3	88.7	B3	62.7	26
4	North	11:20	A4	90.3	B4	65.3	25
			Average	**89.8**	**Average**	**64.05**	**25.75**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3465	Report No. N/07/23/3465N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	21/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
SCUB Area DG Set 380 KVA 11 Nos							
1	East	11:00	A1	85	B1	58	27
2	West	11:05	A2	88.6	B2	62.6	26
3	South	11:10	A3	86.7	B3	62.7	24
4	North	11:20	A4	89.2	B4	64.2	25
			Average	**87.37**	**Average**	**61.87**	**25.5**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3466	Report No. N/07/23/3466N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
Intec Power House DG 604 KVA 12 Nos							
1	East	11:00	A1	90.9	B1	63.8	27.1
2	West	11:05	A2	92.3	B2	66.7	25.6
3	South	11:10	A3	88.6	B3	64.2	24.4
4	North	11:20	A4	89.2	B4	63	26.2
			Average	**90.25**	**Average**	**64.4**	**25.8**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3467	Report No. N/07/23/3467N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
Intec Power House DG 625 KVA-13 Nos							
1	East	11:00	A1	88.2	B1	62.2	26
2	West	11:05	A2	90.7	B2	65.3	25.4
3	South	11:10	A3	92.8	B3	68.6	24.2
4	North	11:20	A4	90.2	B4	65.2	25
			Average	**90.4**	**Average**	**65.32**	**25.15**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3468	Report No. N/07/23/3468N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	I.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
Intec Power House DG 500 KVA Nos 14							
1	East	11:00	A1	85.4	B1	59.2	26.2
2	West	11:05	A2	87.2	B2	61.4	25.8
3	South	11:10	A3	90.1	B3	65.8	24.3
4	North	11:20	A4	87.4	B4	60.3	27.1
			Average	**87.5**	**Average**	**61.67**	**25.85**

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

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3469	Report No. N/07/23/3469N	Report Date	24/07/2023
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 /Type	DG Noise Insertion Loss
Order Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
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

Chemical Testing; Group: Atmospheric Pollution

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
Intec Point Cargo DG Set 437.5 KVA 23 Nos							
1	East	11:00	A1	90.4	B1	64.4	26
2	West	11:05	A2	85.1	B2	58.6	26.5
3	South	11:10	A3	85.6	B3	60.6	25
4	North	11:20	A4	87.7	B4	63.5	24.2
			Average	**87.2**	**Average**	**61.77**	**25.4**

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

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5486	Report No.: SA/04/23/5486	Report Date	18/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date – Sampling	13/04/2023
		Date - Receipt of Sample	14/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	14/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	18/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format: 1.0/CAC/UAN No 0000111260/ CR/2205000810 Date 13.05.2022			

Stack Details	
~Stack Identity	CA Terminal Gate No.8
~Stack attached to	DG Set-1 125 KVA
~Material of construction	M.S
~Stack height above ground level	12 m
~Stack diameter	0.10 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	24 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**124**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**11.1**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**227**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**15**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**5.71**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.03**	Not specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**16**	Not specified	mg/Nm^3	IS 11255 (Part 7):1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5488	Report No.: SA/04/23/5488	Report Date	18/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	14/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	14/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	18/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-2 T1 C Powerhouse
~Stack attached to	DG Set 625 KVA
~Material of construction	M.S
~Stack height above ground level	22.7 m
~Stack diameter	0.20 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	25 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**105**	-	°C	IS 11255 (Part 3) 2008
Flue Gas Velocity	**9.52**	-	m/s	IS 11255 (Part 3) 2008
Flue Gas Flow Rate	**824**	-	Nm^3/h	IS 11255 (Part 3) 2008
Particulate Matter (PM)	**19**	150	mg/Nm^3	IS 11255 (Part 1) 1985
Sulphur Dioxide (SO_2)	**7.14**	Not specified	mg/Nm^3	IS 11255 (Part 2) 1985
Sulphur Dioxide (SO_2)	**0.14**	Not specified	Kg/d	IS 11255 (Part 2) 1985
Oxides of Nitrogen (NO_2)	**19.7**	Not specified	mg/Nm^3	IS 11255 (Part 7) 1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5489	Report No: SA/04/23/5489	Report Date	18/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	14/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	14/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	18/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-3 T1 C Powerhouse
~Stack attached to	DG Set 1010 KVA
~Material of construction	M.S
~Stack height above ground level	24.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	55 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**135**	-	°C	IS 11255 (Part 3) 2008
Flue Gas Velocity	**12.7**	-	m/s	IS 11255 (Part 3) 2008
Flue Gas Flow Rate	**2241**	-	Nm^3/h	IS 11255 (Part 3) 2008
Particulate Matter (PM)	**23**	150	mg/Nm^3	IS 11255 (Part 1) 1985
Sulphur Dioxide (SO_2)	**5.71**	Not specified	mg/Nm^3	IS 11255 (Part 2) 1985
Sulphur Dioxide (SO_2)	**0.31**	Not specified	Kg/d	IS 11255 (Part 2) 1985
Oxides of Nitrogen (NO_2)	**14.4**	Not specified	mg/Nm^3	IS 11255 (Part 7) 1985

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Sample ID: SA/04/23/5487	Report No: SA/04/23/5487	Report Date	18/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai – 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/ Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	14/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	14/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	18/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-1 T1 C Powerhouse
~Stack attached to	DG Set 1010 KVA
~Material of construction	M.S
~Stack height above ground level	24.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	55 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**130**	-	°C	IS 11255 (Part 3) 2008
Flue Gas Velocity	**12.4**	-	m/s	IS 11255 (Part 3) 2008
Flue Gas Flow Rate	**2273**	-	Nm^3/h	IS 11255 (Part 3) 2008
Particulate Matter (PM)	**18**	150	mg/Nm^3	IS 11255 (Part 1) 1985
Sulphur Dioxide (SO_2)	**8.73**	Not specified	mg/Nm^3	IS 11255 (Part 2) 1985
Sulphur Dioxide (SO_2)	**0.48**	Not specified	Kg/d	IS 11255 (Part 2) 1985
Oxides of Nitrogen (NO_2)	**17.9**	Not specified	mg/Nm^3	IS 11255 (Part 7) 1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5527	Report No: SA/04/23/5527	Report Date	19/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity /Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	15/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	15/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	19/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-4 T1 C Powerhouse
~Stack attached to	DG Set 2500 KVA
~Material of construction	M.S
~Stack height above ground level	22.7 m
~Stack diameter	0.30 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	75 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**155**	-	°C	IS 11255 (Part 3) 2008
Flue Gas Velocity	**14.1**	-	m/s	IS 11255 (Part 3) 2008
Flue Gas Flow Rate	**2375**	-	Nm^3/h	IS 11255 (Part 3) 2008
Particulate Matter (PM)	**24**	150	mg/Nm^3	IS 11255 (Part 1) 1985
Sulphur Dioxide (SO_2)	**9.6**	Not specified	mg/Nm^3	IS 11255 (Part 2) 1985
Sulphur Dioxide (SO_2)	**0.5**	Not specified	Kg/d	IS 11255 (Part 2) 1985
Oxides of Nitrogen (NO_2)	**28.6**	Not specified	mg/Nm^3	IS 11255 (Part 7) 1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5524	Report No.: SA/04/23/5524	Report Date	19/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	15/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	15/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	19/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-1 T1 A Powerhouse
~Stack attached to	DG Set 625 KVA
~Material of construction	M.S
~Stack height above ground level	22.7 m
~Stack diameter	0.15 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	24 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**110**	-	°C	(S II)255 (Part 3) 2008
Flue Gas Velocity	**8.88**	-	m/s	(S II)255 (Part 3) 2008
Flue Gas Flow Rate	**427**	-	Nm^3/h	(S II)255 (Part 3) 2008
Particulate Matter (PM)	**20**	150	mg/Nm^3	(S II)255 (Part 1):1985
Sulphur Dioxide (SO_2)	**8.57**	Not specified	mg/Nm^3	(S II)255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.09**	Not specified	Kg/d	(S II)255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**17.8**	Not specified	mg/Nm^3	(S II)255 (Part 7):1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5525	Report No: SA/04/23/5525	Report Date	19/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity /Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	15/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	15/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	19/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG-2 T1 A Powerhouse
~Stack attached to	DG Set 625 KVA
~Material of construction	M.S
~Stack height above ground level	22.7 m
~Stack diameter	0.15 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	24 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**106**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**9.07**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**443**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**14**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**5.71**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.06**	Not specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**19.7**	Not specified	mg/Nm^3	IS 11255 (Part 7):1985

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STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/5526	Report No: SA/04/23/5526	Report Date	19/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity /Packing	PM: 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	13/04/2023
		Date - Receipt of Sample	15/04/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	15/04/2023
Order Reference	W.O.No.5700316635 Date-29.10.2022	Date -Completion of Analysis	19/04/2023
Calibration Certificate No	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023	Sampling Equipment ID	AEC/EQ/1611
Consent Number & Date Format:	1.0/CAC/UAN No.0000111260/ CR/2205000810 Date 13.05.2022		

Stack Details	
~Stack Identity	DG MLCP Building
~Stack attached to	DG Set 380 KVA
~Material of construction	M.S
~Stack height above ground level	3 m
~Stack diameter	0.10 m
~Stack shape at top	Round
~Type of Fuel	Diesel
~Fuel Consumption	20 L/h

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**115**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**8.05**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**170**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**12**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**8.57**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.03**	Not specified	Kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**21.4**	Not specified	mg/Nm^3	IS 11255 (Part 7):1985

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Technical Manager (Chemical)
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STACK EMISSION MONITORING REPORT

Sample ID : SA/07/23/5746	Report No. SA/07/23/5746	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

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

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**140**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**12.5**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**1561**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**27**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**8.4**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.3**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**22.8**	Not specified	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/07/23/5747	Report No. SA/07/23/5747	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

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

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**115**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**9.30**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**434**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**20**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**11.2**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.12**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**17.5**	Not specified	mg/Nm^3	IS 11255 (Part 7):2005

Sampling Equipment ID: AEC/EQ/1611
Calibration Certificate No.: MEEPL/1222/AEC/SMK/RM-05 Dated 31.12.2023
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Sample ID : SA/07/23/5748	Report No. SA/07/23/5748	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

Stack Details	
~ Stack Identity	Stack SCUB Area-11
~ Stack attached to	DG Set 380 KVA
~ Material of construction	M.S
~ Stack height above ground level	1 m
~ Stack diameter	0.20 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	16 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**125**	-	°C	IS 11255 (Part 3): 2008
Flue Gas Velocity	**10.4**	-	m/s	IS 11255 (Part 3): 2008
Flue Gas Flow Rate	**856**	-	Nm^3/h	IS 11255 (Part 3): 2008
Particulate Matter (PM)	**25**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**7**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.14**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**21**	Not specified	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
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Sample ID : SA/07/23/5749	Report No. SA/07/23/5749	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

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

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**129**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**13**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**1050**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**26**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**9.8**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.25**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**29.8**	Not specified	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
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Sample ID : SA/07/23/5750	Report No. SA/07/23/5750	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

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

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**142**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**11.9**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**941**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**23**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**11.2**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.25**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**19.3**	Not specified	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/07/23/5751	Report No. SA/07/23/5751	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

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

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**134**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**9.57**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**1718**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**24**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**8.4**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.35**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**24.6**	Not specified	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/07/23/5752	Report No. SA/07/23/5752	Report Date	26/07/2023
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	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO_2: 30 ml x 1 no. plastic bottle NO_2: 25 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
		Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

Stack Details				
~ Stack Identity	Intake Point Cargo-23			
~ Stack attached to	DG Set 437.5 KVA			
~ Material of construction	M.S			
~ Stack height above ground level	10 m			
~ Stack diameter	0.20 m			
~ Stack shape at top	Round			
~ Type of Fuel	Diesel			
~ Fuel Consumption	24 L/h			
Parameter	**Result**	**Limits as per MPCB Consent**	**Unit**	**Method**
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**143**	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	**10.7**	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	**847**	-	Nm^3/h	IS 11255 (Part 3):2008
Particulate Matter (PM)	**30**	150	mg/Nm^3	IS 11255 (Part 1):1985
Sulphur Dioxide (SO_2)	**14**	Not specified	mg/Nm^3	IS 11255 (Part 2):1985
Sulphur Dioxide (SO_2)	**0.28**	Not specified	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO_2)	**31.7**	Not specified	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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TEST REPORT

Sample ID E/04/23/5075	Report No. E/04/23/5075	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	12/04/2023
Sample Quantity Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	**7.3**	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**92**	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 B, 5 IB 2017
5.	Ammonical Nitrogen (as NH3-N)	**24.7**	mg/L	APHA 23rd Ed 4500 NH3 B & C 4 IIA-4 IIE 2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	**220**	MPN Index /100ml	APHA 23rd Ed 9221-E 9-77 2017
Note: Sample ID E/04/23/5075 bears two Test Reports - E/04/23/5075 and E/04/23/5075N				

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TEST REPORT

Sample ID: E/04/23/5075	Report No.: E/04/23/5075N	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	12/04/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	**28.6**	mg/L	APHA 23rd Ed 4500-N B & 4500
Note: Sample ID E/04/23/5075 bears two Test Reports – E/04/23/5075 and E/04/23/5075N				

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TEST REPORT

Sample ID: E/04/23/5076	Report No: E/04/23/5076	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	12/04/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	**7.6**	5.5-9.0	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**15**	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**3**	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**11**	50	mg/L	APHA 23rd Ed. 5220-B, 5-18, 2017
5.	Ammonical Nitrogen (as NH3-N)	**1.5**	5	mg/L	APHA 23rd Ed. 4500 NH3 F, 4-119, 2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	**34**	Less than 100	MPN Index /100ml	APHA 23rd Ed. 9221 E, 9-77, 2017
Note: Sample ID E/04/23/5076 bears two Test Reports – E/04/23/5076 and E/04/23/5076N					

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TEST REPORT

Sample ID: E/04/23/5076	Report No: E/04/23/5076N	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	12/04/2023
Sample Quantity Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	**5.1**	10	mg/L	APHA 23rd Ed 4500 N, B & 4500
Note: Sample ID E/04/23/5076 bears two Test Reports - E/04/23/5076 and E/04/23/5076N					

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TEST REPORT

Sample ID: E/04/23/5077	Report No.: E/04/23/5077	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	12/04/2023
Sample Quantity /Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	**6.7**	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**94**	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-B, 5-18 2017
5.	Ammonical Nitrogen (as NH3-N)	**25.8**	mg/L	APHA 23rd Ed 4500-NH3 B & C, 4-94 to 4-96 2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	**240**	MPN Index /100ml	APHA 23rd Ed 9221-E, 9-77 2017
Note: Sample ID E/04/23/5077 bears two Test Reports – E/04/23/5077 and E/04/23/5077N				

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TEST REPORT

Sample ID: E/04/23/5077	Report No: E/04/23/5077N	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	12/04/2023
Sample Quantity Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	**30**	mg/L	APHA 23rd Ed 4500 N B & 4500
Note: Sample ID E/04/23/5077 bears two Test Reports – E/04/23/5077 and E/04/23/5077N				

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TEST REPORT

Sample ID: E/04/23/5078	Report No: E/04/23/5078	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	12/04/2023
Sample Quantity Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	**7.48**	5.5-9.0	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**17**	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**5**	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**17**	50	mg/L	APHA 23rd Ed. 5220 B, 5-18 2017
5.	Ammonical Nitrogen (as NH3-N)	**2.2**	5	mg/L	APHA 23rd Ed. 4500 NH3 F, 4-115 2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	**32**	Less than 100	MPN Index /100ml	APHA 23rd Ed 9221-E, 9-77 2017
Note: Sample ID E/04/23/5078 bears two Test Reports - E/04/23/5078 and E/04/23/5078N					

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TEST REPORT

Sample ID: E/04/23/5078	Report No.: E/04/23/5078N	Report Date	17/04/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	12/04/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	**4.6**	10	mg/L	APHA 23rd Ed. 4500 N B & 4500
Note: Sample ID E/04/23/5078 bears two Test Reports - E/04/23/5078 and E/04/23/5078N					

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TEST REPORT

Sample ID: E/05/23/5116	Report No.: E/05/23/5116	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	**8**	-	IS 3025 (Part 1) 1983
2.	Total Suspended Solids	**82**	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**155**	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**480**	mg/L	APHA 23rd Ed. 5220-B 5-16 2017
5.	Ammonical Nitrogen (as NH3-N)	**20.2**	mg/L	APHA 23rd Ed 4500 NH3 B & C 4-114-4-116 2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	**240**	MPN Index /100ml	APHA 23rd Ed 9221-E 9-77 2017
Note: Sample ID E/05/23/5116 bears two Test Reports - E/05/23/5116 and E/05/23/5116N				

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TEST REPORT

Sample ID: E/05/23/5116	Report No.: E/0/23/5116N	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	**24.9**	mg/L	APHA, 23rd Ed. 4500 N, B & 4500
Note: Sample ID E/05/23/5116 bears two Test Reports - E/05/23/5116 and E/05/23/5116N				

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TEST REPORT

Sample ID: E/05/23/5117	Report No: E/05/23/5117	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	**7.5**	5.5-9.0	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**14**	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**4**	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**14**	50	mg/L	APHA 23rd Ed. 5220-B, 5-18 2017
5.	Ammonical Nitrogen (as NH3-N)	**1.5**	5	mg/L	APHA 23rd Ed. 4500 NH3, F, 4-99 2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	**32**	Less than 100	MPN Index /100ml	APHA 23rd Ed 9221-E, 9-77 2017
Note: Sample ID E/05/23/5117 bears two Test Reports - E/05/23/5117 and E/05/23/5117N					

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TEST REPORT

Sample ID E/05/23/5117	Report No. E/05/23/5117N	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	**5.5**	10	mg/L	APHA 23rd Ed. 4500 N B & 4500 N C
Note: Sample ID E/05/23/5117 bears two Test Reports – E/05/23/5117 and E/05/23/5117N					

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TEST REPORT

Sample ID: E/05/23/5118	Report No.: E/05/23/5118	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1.	pH	**6.8**	-	IS 3025 (Part 11) 1983
2.	Total Suspended Solids	**96**	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**175**	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**540**	mg/L	APHA 23rd Ed. 5220-B, 5-18, 2017
5.	Ammonical Nitrogen (as NH3-N)	**28**	mg/L	APHA 23rd Ed 4500 NH3 B & C, 4-94-4-96, 2017
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6.	Faecal Coliforms	**210**	MPN Index /100ml	APHA 23rd Ed 9221-E, 9-71, 2017
Note: Sample ID E/05/23/5118 bears two Test Reports – E/05/23/5118 and E/05/23/5118N				

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TEST REPORT

Sample ID: E/05/23/5118	Report No.: E/05/23/5118N	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/0/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1.	Total Nitrogen (as N)	**33.8**	mg/L	APHA 23rd Ed. 4500 N. B 4-108
Note: Sample ID E/05/23/5118 bears two Test Reports – E/05/23/5118 and E/05/23/5118N				

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TEST REPORT

Sample ID: E/05/23/5119	Report No: E/05/23/5119	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	**7.5**	5.5-9.0	-	IS 3025 (Part 1) 1983
2.	Total Suspended Solids	**13**	20	mg/L	IS 3025 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	**3**	10	mg/L	IS 3025 (Part 44) 1993
4.	Chemical Oxygen Demand	**12**	50	mg/L	APHA 23rd Ed. 5220-B, 5-18 2017
5.	Ammonical Nitrogen (as NH3-N)	**2.6**	5	mg/L	APHA 23rd Ed. 4500 NH3, I 4-19 2017
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6.	Faecal Coliforms	**40**	Less than 100	MPN Index /100ml	APHA 23rd Ed 9221-E, 9-77 2017

Note: Sample ID E/05/23/5119 bears two Test Reports - E/05/23/5119 and E/05/23/5119N

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TEST REPORT

Sample ID: E/05/23/5119	Report No.: E/05/23/5119N	Report Date	24/05/2023
Name and Address of Customer	**Mumbai International Airport Ltd.** Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.		
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
Consent Number & Date Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022			

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1.	Total Nitrogen (as N)	**4.5**	10	mg/L	APHA 23rd Ed. 4500 N. B 4-108
Note: Sample ID E/05/23/5119 bears two Test Reports – E/05/23/5119 and E/05/23/5119N					

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TEST REPORT

Sample ID : E/06/23/5043	Report No. E/06/23/5043	Report Date	15/06/2023
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 1 STP Inlet	Date -Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**7.05**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**84**	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**173**	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**520**	mg/L	APHA 23rd Ed. 5220 B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**22.4**	mg/L	APHA 23rd Ed., 4500 NH3, B & C, 4-104, 4-106
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6	Faecal Coliforms	**240**	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77, 2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/06/23/5043 bears two Test Reports - E/06/23/5043 and E/06/23/5043N				

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TEST REPORT

Sample ID : E/06/23/5043	Report No. E/06/23/5043N	Report Date	15/06/2023
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 1 STP Inlet	Date -Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**26.3**	mg/L	APHA 23rd Ed. 4500 N B4-108 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5043 bears two Test Reports - E/06/23/5043 and E/06/23/5043N

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TEST REPORT

Sample ID : E/06/23/5044	Report No. E/06/23/5044	Report Date	15/06/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of Sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.4**	5.5-9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**13**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**5**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**18**	Not to exceed 50	mg/L	APHA 23rd Ed. 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**1.8**	Not to exceed 5	mg/L	APHA 23rd Ed. 4500 NH3- B & C, 4-118, 4-116
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6	Faecal Coliforms	**32**	Less than 100	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5044 bears two Test Reports - E/06/23/5044 and E/06/23/5044N

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TEST REPORT

Sample ID : E/06/23/5044	Report No. E/06/23/5044N	Report Date	15/06/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of Sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**4.8**	Not to exceed 10	mg/L	APHA 23rd Ed., 4500 N B4-108 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5044 bears two Test Reports - E/06/23/5044 and E/06/23/5044N

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TEST REPORT

Sample ID : E/06/23/5045	Report No. E/06/23/5045	Report Date	15/06/2023
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	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**6.5**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**99**	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**200**	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**600**	mg/L	APHA 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**30.2**	mg/L	APHA 23rd Ed., 4500 NH3, B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6	Faecal Coliforms	**240**	MPN Index /100 ml	APHA 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5045 bears two Test Reports - E/06/23/5045 and E/06/23/5045N

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

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Laboratory Services Division
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Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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sales@ashwamedh.net +91-253-2392225

TEST REPORT

Sample ID : E/06/23/5045	Report No. E/06/23/5045N	Report Date	15/06/2023
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	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**38**	mg/L	APHA 23rd Ed. 4500 N BA-10B 2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022				
Note: Sample ID E/06/23/5045 bears two Test Reports - E/06/23/5045 and E/06/23/5045N				

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TEST REPORT

Sample ID : E/06/23/5046	Report No. E/06/23/5046	Report Date	15/06/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of Sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.8**	5.5-9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**11**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**4**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**14**	Not to exceed 50	mg/L	APHA 23rd Ed. 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**2.8**	Not to exceed 5	mg/L	APHA 23rd Ed. 4500 NH3- B & C, 4-104, 4-116
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6	Faecal Coliforms	**39**	Less than 100	MPN Index /100 ml	APHA 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5046 bears two Test Reports - E/06/23/5046 and E/06/23/5046N

Sonali Kapse
Section In-charge (Biological)
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TEST REPORT

Sample ID : E/06/23/5046	Report No. E/06/23/5046N	Report Date	15/06/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	09/06/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle	Date - Receipt of Sample	10/06/2023
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date - Start of Analysis	10/06/2023
Order Reference	Work Order No. 5700316635 dated 29.10.2022	Date - Completion of Analysis	14/06/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**6.2**	Not to exceed 10	mg/L	APHA 23rd Ed., 4500 N.B4-ISB 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/06/23/5046 bears two Test Reports - E/06/23/5046 and E/06/23/5046N

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TEST REPORT

Sample ID : E/07/23/5115	Report No. E/07/23/5115	Report Date	25/07/2023
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-1 STP Inlet	Date -Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**7.8**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**96**	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**157**	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 NH_3-N)	**25.8**	mg/L	APHA, 23rd Ed. 4500 NH3, B & C, 4-94, 4-116
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6	Faecal Coliforms	**280**	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77: 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5115 bears two Test Reports - E/07/23/5115 and E/07/23/5115N

Sonali Kapse
Section In-charge (Biological)
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TEST REPORT

Sample ID : E/07/23/5115	Report No. E/07/23/5115N	Report Date	25/07/2023
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-1 STP Inlet	Date -Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**28.6**	mg/L	APHA, 23rd Ed. 4500 N.B4- (08.2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022				
Note: Sample ID E/07/23/5115 bears two Test Reports - E/07/23/5115 and E/07/23/5115N				

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TEST REPORT

Sample ID : E/07/23/5116	Report No. E/07/23/5116	Report Date	25/07/2023
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	Treated Sewage Effluent
Sampling Location	Terminal-1 STP RO Outlet	Date - Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.5**	5.5 to 9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**12**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**3**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**14**	Not to exceed 50	mg/L	APHA 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**1.6**	Not to exceed 5	mg/L	APHA 23rd Ed., 4500 NH3, F, 4 - 119
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6	Faecal Coliforms	**32**	Less than 100	MPN Index /100 ml	APHA 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5116 bears two Test Reports - E/07/23/5116 and E/07/23/5116N

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TEST REPORT

Sample ID : E/07/23/5116	Report No. E/07/23/5116N	Report Date	25/07/2023
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	Treated Sewage Effluent
Sampling Location	Terminal-1 STP RO Outlet	Date - Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**4.2**	Not to exceed 10	mg/L	APHA 23rd Ed. 4500 N.B&-ISO 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5116 bears two Test Reports - E/07/23/5116 and E/07/23/5116N

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TEST REPORT

Sample ID : E/07/23/5117	Report No. E/07/23/5117	Report Date	25/07/2023
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	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**6.8**	-	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)	**213**	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**640**	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**32.5**	mg/L	APHA, 23rd Ed., 4500 NH_3, B & C, 4 -114, 4-116
Biological Testing; Group: Pollution & Environment				
Bacteriological Parameters				
6	Faecal Coliforms	**350**	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5117 bears two Test Reports - E/07/23/5117 and E/07/23/5117N

Sonali Kapse
Section In-charge (Biological)
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Nilad Soundankar
Technical Manager (Chemical)
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TEST REPORT

Sample ID : E/07/23/5117	Report No. E/07/23/5117N	Report Date	25/07/2023
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	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**35.5**	mg/L	APHA, 23rd Ed., 4500 N B & 10B:2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/07/23/5117 bears two Test Reports - E/07/23/5117 and E/07/23/5117N				

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TEST REPORT

Sample ID : E/07/23/5118	Report No. E/07/23/5118	Report Date	25/07/2023
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	Treated Sewage Effluent
Sampling Location	Terminal-2 STP RO Outlet	Date - Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.7**	5.5 to 9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**13**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**4**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**16**	Not to exceed 50	mg/L	APHA 23rd Ed., 5220 B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**2.4**	Not to exceed 5	mg/L	APHA 23rd Ed., 4500 NH3, F, 4-68
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
6	Faecal Coliforms	**46**	Less than 100	MPN Index /100 ml	APHA 23rd Ed., 9221 E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5118 bears two Test Reports - E/07/23/5118 and E/07/23/5118N

Sonali Kapse
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Technical Manager (Chemical)
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TEST REPORT

Sample ID : E/07/23/5118	Report No. E/07/23/5118N	Report Date	25/07/2023
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	Treated Sewage Effluent
Sampling Location	Terminal-2 STP RO Outlet	Date - Sampling	19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	20/07/2023
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	20/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	24/07/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**4.9**	Not to exceed 10	mg/L	APHA 23rd Ed. 4500 N,B4-108:2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/07/23/5118 bears two Test Reports - E/07/23/5118 and E/07/23/5118N

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TEST REPORT

Sample ID : E/08/23/5133	Report No. E/08/23/5133	Report Date	05/09/2023
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 1 STP Inlet	Date -Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	**8.2**	-	IS 3025 (Part 11) 1983
2	Total Suspended Solids	**80**	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 B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**19**	mg/L	APHA, 23rd Ed., 4500 NH3, B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
6	Faecal Coliforms	**220**	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/08/23/5133 bears two Test Reports - E/08/23/5133 and E/08/23/5133N

Sonali Kapse
Section In-charge (Biological)
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TEST REPORT

Sample ID : E/08/23/5133	Report No. E/08/23/5133N	Report Date	05/09/2023
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 1 STP Inlet	Date -Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**23.3**	mg/L	APHA 23rd Ed. 4500 N B4 :08.2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/08/23/5133 bears two Test Reports - E/08/23/5133 and E/08/23/5133N				

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TEST REPORT

Sample ID : E/08/23/5134	Report No. E/08/23/5134	Report Date	05/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.45**	5.5-9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**10**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**4**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**15**	Not to exceed 50	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**1.72**	Not to exceed 5	mg/L	APHA, 23rd Ed., 4500-NH3, F, 4-119
Biological Testing; Group: Pollution & Environment					
Biological Parameters					
6	Faecal Coliforms	**34**	Less than 100	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/08/23/5134 bears two Test Reports - E/08/23/5134 and E/08/23/5134N

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TEST REPORT

Sample ID : E/08/23/5134	Report No. E/08/23/5134N	Report Date	05/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	Total Nitrogen (as N)	**6.2**	Not to exceed 10	mg/L	APHA 23rd Ed. 4500 N.B&4-108 2017

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/08/23/5135	Report No. E/08/23/5135	Report Date	05/09/2023
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	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	**6.79**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**92**	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-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**29.1**	mg/L	APHA, 23rd Ed., 4500 NH3, B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
6	Faecal Coliforms	**240**	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/08/23/5135 bears two Test Reports - E/08/23/5135 and E/08/23/5135N

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Section In-charge (Biological)
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TEST REPORT

Sample ID : E/08/23/5135	Report No. E/08/23/5135N	Report Date	05/09/2023
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	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**37.3**	mg/L	APHA 23rd Ed. 4500 N B4-108:2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/08/23/5135 bears two Test Reports - E/08/23/5135 and E/08/23/5135N				

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TEST REPORT

Sample ID : E/08/23/5136	Report No. E/08/23/5136	Report Date	05/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.6**	5.5-9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**14**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**6**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**22**	Not to exceed 50	mg/L	APHA 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**2**	Not to exceed 5	mg/L	APHA 23rd Ed., 4500-NH3 F, 4-115
Biological Testing; Group: Pollution & Environment					
Biological Parameters					
6	Faecal Coliforms	**33**	Less than 100	MPN Index /100 ml	APHA 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/08/23/5136 bears two Test Reports - E/08/23/5136 and E/08/23/5136N

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Section In-charge (Biological)
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TEST REPORT

Sample ID : E/08/23/5136	Report No. E/08/23/5136N	Report Date	05/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	30/08/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	31/08/2023
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	31/08/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	04/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	Total Nitrogen (as N)	**4.9**	Not to exceed 10	mg/L	APHA 23rd Ed. 4500 N.B& 4-108:2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022
Note: Sample ID E/08/23/5136 bears two Test Reports - E/08/23/5136 and E/08/23/5136N

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TEST REPORT

Sample ID : E/09/23/5063	Report No. E/09/23/5063	Report Date	21/09/2023
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 1 STP Inlet	Date -Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**7.9**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**88**	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**151**	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**440**	mg/L	APHA 23rd Ed. 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**21.3**	mg/L	APHA 23rd Ed. 4500 NH3 B & C, 4-104, 4-105
Biological Testing; Group: Pollution & Environment				
Biological Parameters				
6	Faecal Coliforms	**240**	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77 2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5063 bears two Test Reports - E/09/23/5063 and E/09/23/5063N				

Sonali Kapse
Section In-charge (Biological)
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TEST REPORT

Sample ID : E/09/23/5063	Report No. E/09/23/5063N	Report Date	21/09/2023
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 1 STP Inlet	Date -Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**21.5**	mg/L	APHA 23rd Ed. 4500 N-B & 4500-NO3-
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5063 bears two Test Reports - E/09/23/5063 and E/09/23/5063N				

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Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
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sales@ashwamedh.net +91-253-2392225

TEST REPORT

Sample ID : E/09/23/5064	Report No. E/09/23/5064	Report Date	21/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**7.6**	5.5 to 9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**8**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**4**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**16**	Not to exceed 50	mg/L	APHA 23rd Ed. 5220-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**1.88**	Not to exceed 5	mg/L	APHA 23rd Ed. 4500 NH3- F, 4-115
Biological Testing; Group: Pollution & Environment					
Biological Parameters					
6	Faecal Coliforms	**32**	Less than 100	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5064 bears two Test Reports - E/09/23/5064 and E/09/23/5064N

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sales@ashwamedh.net +91-253-2392225

TEST REPORT

Sample ID : E/09/23/5064	Report No. E/09/23/5064N	Report Date	21/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**4.4**	Not to exceed 10	mg/L	APHA 23rd Ed. 4500 N-B& 4500 N-C 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5064 bears two Test Reports - E/09/23/5064 and E/09/23/5064N

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TEST REPORT

Sample ID : E/09/23/5065	Report No. E/09/23/5065	Report Date	21/09/2023
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	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
Physical & Chemical Parameters				
1	pH (at 25°C)	**6.86**	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**98**	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-B, 5-18
5	Ammonical Nitrogen (as NH_3-N)	**28**	mg/L	APHA 23rd Ed. 4500-NH3, B & C, 4-114, 4-116
Biological Testing; Group: Pollution & Environment				
Biological Parameters				
6	Faecal Coliforms	**280**	MPN Index /100 ml	APHA 23rd Ed. 9221-E, 9-77, 2017
Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5065 bears two Test Reports - E/09/23/5065 and E/09/23/5065N				

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TEST REPORT

Sample ID : E/09/23/5065	Report No. E/09/23/5065N	Report Date	21/09/2023
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	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Total Nitrogen (as N)	**32.4**	mg/L	APHA 23rd Ed. 4500 N B4-108 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5065 bears two Test Reports - E/09/23/5065 and E/09/23/5065N

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TEST REPORT

Sample ID : E/09/23/5066	Report No. E/09/23/5066	Report Date	21/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. S700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1	pH (at 25°C)	**8.0**	5.5 to 9.0	-	IS 3025 (Part 11):1983
2	Total Suspended Solids	**16**	Not to exceed 20	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	**5**	Not to exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	**21**	Not to exceed 50	mg/L	APHA 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH3-N)	**2.6**	Not to exceed 5	mg/L	APHA 23rd Ed., 4500 NH3, F, 4 - 115
Biological Testing; Group: Pollution & Environment					
Biological Parameters					
6	Faecal Coliforms	**47**	Less than 100	MPN Index /100 ml	APHA 23rd Ed., 9221-E, 9-77, 2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5066 bears two Test Reports - E/09/23/5066 and E/09/23/5066N

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TEST REPORT

Sample ID : E/09/23/5066	Report No. E/09/23/5066N	Report Date	21/09/2023
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	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Sampling	15/09/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle	Date - Receipt of Sample	16/09/2023
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	16/09/2023
Order Reference	Work Order No. 5700330185 dated 22.08.2023	Date - Completion of Analysis	20/09/2023

Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
1	Total Nitrogen (as N)	**5.8**	Not to exceed 10	mg/L	APHA 23rd Ed., 4500 N,B4-108:2017

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022 Note: Sample ID E/09/23/5066 bears two Test Reports - E/09/23/5066 and E/09/23/5066N

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Annexure –5 DG Enclosures and stack

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

Annexure -06 Contingency plan for spills.

Mumbai International Airport Ltd.

AIRSIDE OPERATIONS

AIRSIDE SAFETY

STANDARD OPERATING PROCEDURE

FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

Activity	Name	Signature	Date
Prepared By:	Rajesh Jadhav DGM- Airside Safety		
Recommended by:	Vinayak Sohani Documentation Lead.		
	Jayant Dasgupta AVP –Airside Management		
	Prasad Nair MR-IMS		
Approved by	Prabhat Mahapatra EVP – Operations		13/1/21

TABLE OF CONTENTS

1.0 PURPOSE

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

2.0 SCOPE

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

The scope of this procedure applies to the following agencies.

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

3.0 OBJECTIVE

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

4.0 RESPONSIBILITY

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

5.0 DEFINITIONS & ABBREVIATIONS

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

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

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

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

6.0 PROCEDURE

6.1 Actions by person first noticing the spill

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

6.2 Actions by Aircraft Operator

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

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

6.3 Air Traffic Control

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

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

6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

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

6.5 Airport Rescue and Fire Fighting (ARFF)

On receiving information from Apron Control/JCC, following actions shall immediately be initiated by the Duty Manager ARFF:
One Crash Fire Tender with crew to be dispatched to the site.

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

6.6 Apron Control

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

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

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

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

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

6.7 Airside Ground Maintenance

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

6.8 Ground Handling Agency

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

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

6.9 Fueling Service Providers

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

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

6.10 Action by Airport Security Force

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

Contact List

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

7.0 FORMATS USED

MIAL/AO-ASM/FMT/16/01 Checklist for Fuel/Fluid Spillage

8.0 RECORDS GENERATED

MIAL/AO-ASM/REC/16 Record of Fuel/Fluid Spillage

9.0 REFERENCES

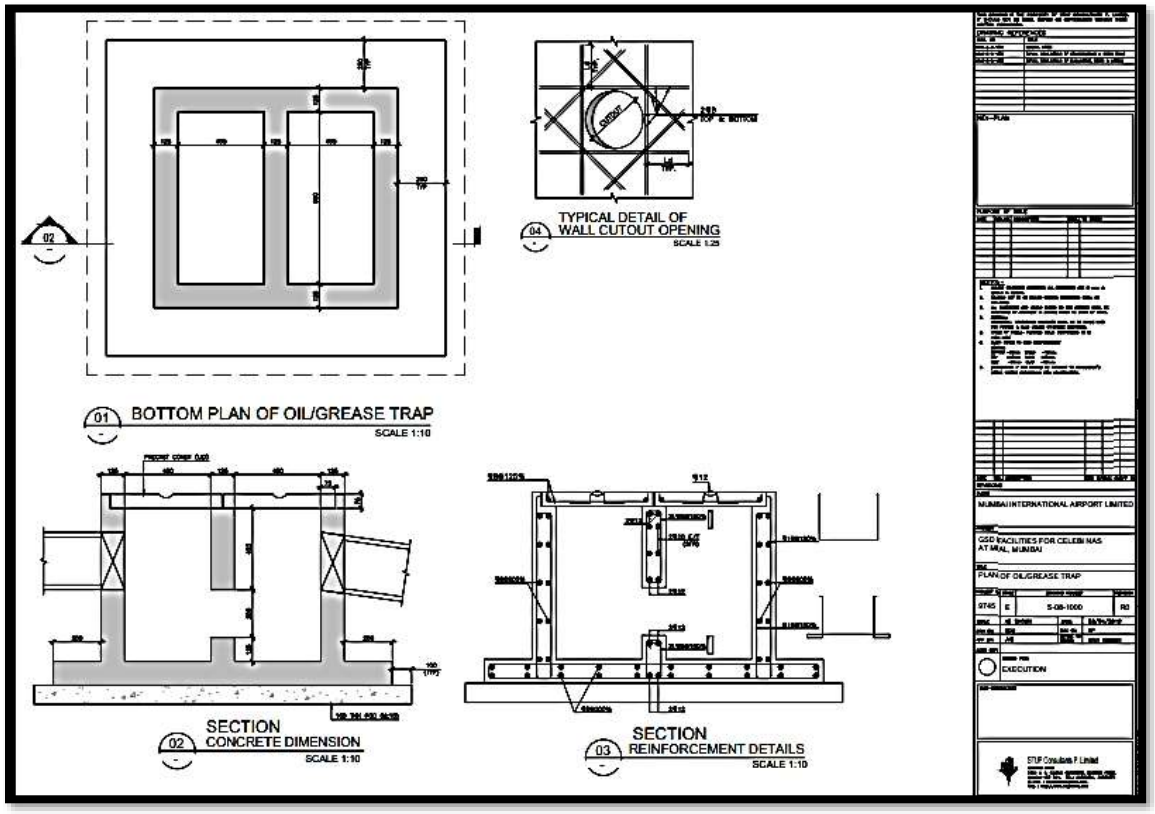
NIL

10.0 REVISION HISTORY

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

Annexure -07 Oil Interceptors.

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



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

IGBC

Confederation of Indian Industry

Indian Green Building Council (IGBC)

hereby certifies that

Mumbai International Airport Limited (T-2)

(IGBC Registration No: GEB 15 0662)

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

IGBC Green Existing Buildings Rating System

Platinum

December 2021

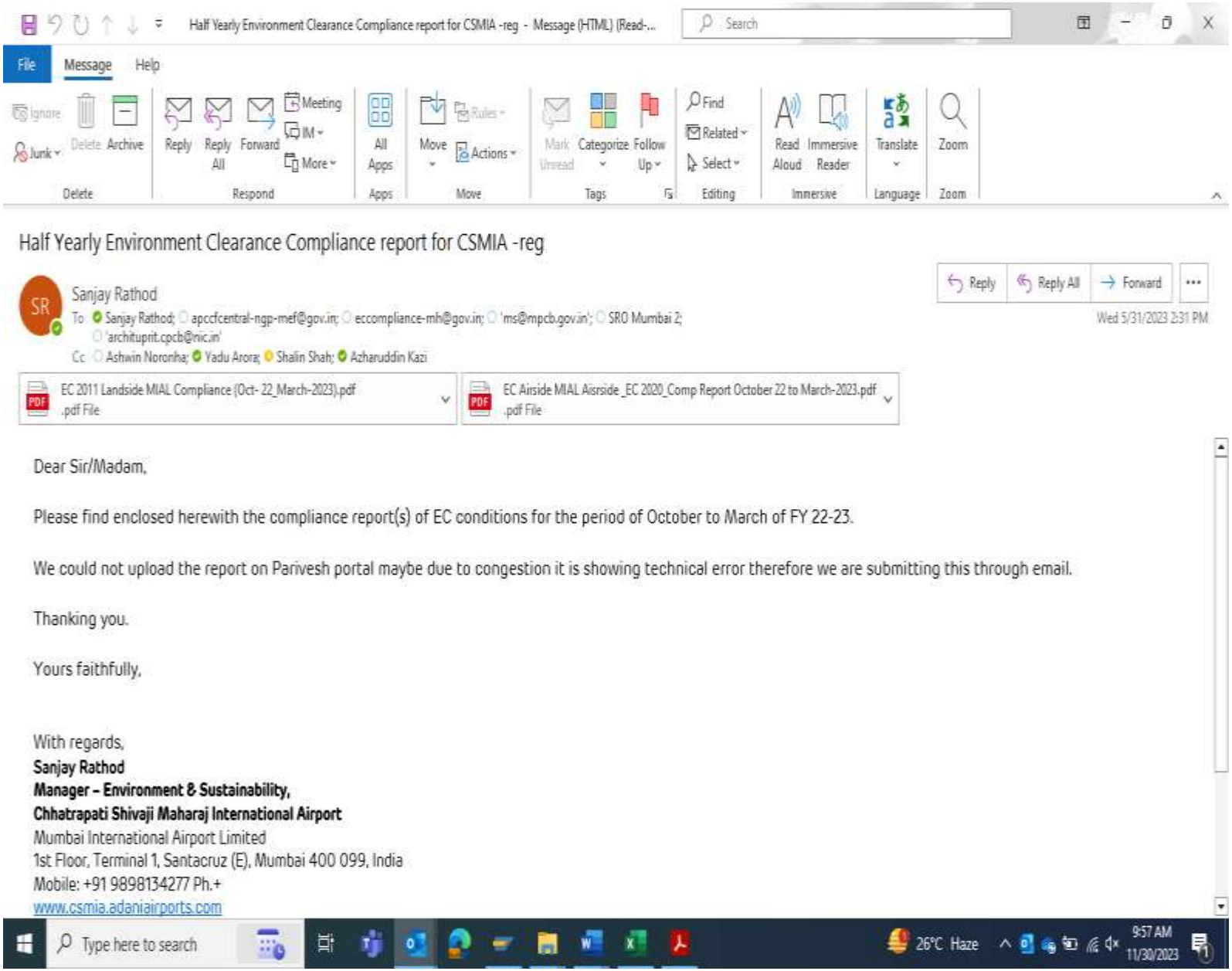
(This certification is valid for next 3 years)

Gurmit Singh Arora
Chair, IGBC Green EB O&M

V Suresh
Chairman, IGBC

K S Venkatagiri
Executive Director, CII-Godrej GBC

Annexure -09 Last EC Submission Letter.


Half Yearly Environment Clearance Compliance report for CSMIA -reg - Message (HTML) (Read-...
Search
File
Message
Help
Ignore
Junk
Delete
Archive
Reply
Reply All
Forward
Meeting
IM
More
All Apps
Move
Rules
Actions
Mark Unread
Categorize
Follow Up
Find
Related
Select
Read Aloud
Immersive Reader
Translate
Zoom
Delete
Respond
Apps
Move
Tags
Editing
Immersive
Language
Zoom
Half Yearly Environment Clearance Compliance report for CSMIA -reg
SR
Sanjay Rathod
To Sanjay Rathod; apccfcentral-ngp-mef@gov.in; eccompliance-mh@gov.in; 'ms@mpcb.gov.in'; SRO Mumbai 2; 'archituprit.cpcb@nic.in'
Cc Ashwin Noronha; Yadu Arora; Shalin Shah; Azharuddin Kazi
Reply
Reply All
Forward
Wed 5/31/2023 2:31 PM
EC 2011 Landside MIAL Compliance (Oct- 22_March-2023).pdf
.pdf File
EC Airside MIAL Aisrside _EC 2020_Comp Report October 22 to March-2023.pdf
.pdf File
Dear Sir/Madam,
Please find enclosed herewith the compliance report(s) of EC conditions for the period of October to March of FY 22-23.
We could not upload the report on Parivesh portal maybe due to congestion it is showing technical error therefore we are submitting this through email.
Thanking you.
Yours faithfully,
With regards,
Sanjay Rathod
Manager – Environment & Sustainability,
Chhatrapati Shivaji Maharaj International Airport
Mumbai International Airport Limited
1st Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India
Mobile: +91 9898134277 Ph.+
www.csmia.adaniairports.com
Type here to search
26°C Haze
9:57 AM
11/30/2023

Chhatrapati Shivaji Maharaj
INTERNATIONAL AIRPORT
MUMBAI

Ref: MIAL/ENV/23/19

31st May 2023

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

Dear Sir,

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

Ref: - Environment clearance File no. 10-5/2007-IA-III dated 2nd June 2017 & 3rd April 2007.

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

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

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

Mr. Ashwin Noronha
Chief Operating Officer (COO)

Encl: Half yearly Environmental Compliance report.

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

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

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

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

Registered office: Office of the Airport Director, Terminal-1B, CSMI Airport, Mumbai – 400099, Maharashtra, India

Annexure -10 Environmental Statement (Form V) 2022-23.

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V
(See Rule 14)
Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number	Submitted Date
MPCB-ENVIRONMENT_STATEMENT-0000057291	12-09-2023

PART A

Company Information

Company Name	Application UAN number	
Mumbai International Airport Ltd	MPCB-CONSENT-0000111260	
Address		
Terminal 1B, 1st floor, Chhatrapati Shivaji Interational Airport, Santacruz (E), Mumbai		
Plot no	**Taluka**	**Village**
Terminal 1, Santacruz east	Andheri	Santacruz
Capital Investment (In lakhs)	**Scale**	**City**
1113262.00	L.S.I	Mumbai city
Pincode	**Person Name**	**Designation**
400099	Sanjay Rathod	Manager – Environment & Sustainability,
Telephone Number	**Fax Number**	**Email**
9898134277	02266850778	sanjay.rathod@adani.com
Region	**Industry Category**	**Industry Type**
SRO-Mumbai II	Red	other
Last Environmental statement submitted online	**Consent Number**	**Consent Issue Date**
yes	MPCB-CONSENT-0000111260	2022-05-13
Consent Valid Upto	**Establishment Year**	**Date of last environment statement submitted**
2024-05-31	2006	Sep 29 2022 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	Nos./Y

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	Nos./Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day

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 Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Sewage generation at CSMIA	6615	1571.70	CMD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
OTHERS	0	0	

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

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

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
--NA--	14760	78.40	Ltr/Hr

Part-C

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
PH	7.3	7.3	0	8	Pollutant discharge within standard limit
Suspended Solids	11.92	14.1	0	50	Pollutant discharge within standard limit
BOD 3 days (27oC	4.17	6.2	0	30	Pollutant discharge within standard limit
COD	15.42	21.8	0	100	Pollutant discharge within standard limit

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
SO2 (Kg/day)	0.9	0	0	295.2	Pollutant discharge within standard limit

Total Particulate matter (mg/Nm3)	0	18.36	0	150	Pollutant discharge within standard limit

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	11.760	0	MT/A
5.2 Wastes or residues containing oil	0	7.7	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.4	1.84	MT/A
23.1 Wastes or residues (not made with vegetable or animal materials)	82.40	5.97	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Plastic waste	180	796.83	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

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
STP sludge	8.98	8.4	MT/A

3) Quantity Recycled or Re-utilized within the unit

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

Part-F

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	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	0	0	500000	140	0

Part-H

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

[A] Investment made during the period of Environmental Statement

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

Nil	0	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	*Environmental Protection Measures*	*Capital Investment (Lacks)*
NA	NA	00

Part-I

Any other particulars for improving the quality of the environment.

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