

Ref: MIAL/ENV/23/33

1x 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 8 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.

Ballle

For Mumbai International Airport Limited

Mr. Ashwin Noronha

Chief Operating Officer (COO)

Encl: Half yearly Environmental Compliance report.

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

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

Chhatrapati Shivaji Maharaj Internacional Arpo Ist Floor, Terminal 18, Santacruz (E). Mumbal 400 099, Maharashtra, India CIN: U45200MH2006PLC160164

Tel +91 22 5685 0900 / 6685 0901 csmla.adaniairports.com

# 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 2<sup>nd</sup> June 2017

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

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

S.N.	Conditions	Compliance Status		
(A) Spec	ific Condition			
(i)	As proposed, this environmental clearance is only for up-gradation of Chhatrapati Shivaji International Airport.	Noted		
(ii)	The project proponent shall obtain clearance from DGCA and AAI for safety and project facilities.	Complied. Aerodrome license have been obtained from DGCA. License copy is attached as Annexure - 01.		
(iii)	Construction site shall be adequately barricaded before the construction begins.	Complied. All construction sites are barricaded with metallic sheets before initiating construction activities. The same will be 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 -O4 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).	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, pretreatment 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-O4 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 Ewaste 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.

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	Complied.  The Environmental statement for FY 2022-23 is submitted on MPCB portal on 12 <sup>th</sup> September 2023. It is available also available on the website - <a href="https://csmia.adaniairports.com/all-reports.aspx">https://csmia.adaniairports.com/all-reports.aspx</a> Refer Annexure – 10 Environment statement Form- V for FY 21-22.
(x)	by e-mail.  The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.	Complied. Communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 <sup>th</sup> December 2017.
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final 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

MIGS-64

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.

TOTAL STATE OF THE PARTY OF THE

Date of issue: 01<sup>st</sup> November 2018

New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

# VALIDITY OF THE LICENSE

# Chhatrapati Shivaji Maharaj International Airport, Mumbai

FROM	то	SIGNATURE
03.05.2018	02.05.2020	Tredor Gurery of Children Book
B 3 MAY 2020	G Z MAY 2022	History space Received Agree Kin Biochel General of Civil Avience Seda
8 3 MAY 2022	0.2 MAY 2024	THE STATE STATE STATES AND THE STATE

Annexure -02 Barricading practices.

Annexure - 02 Barricading practices at Construction site







Annexure- 03 Construction material truck covered by impervious sheeting.

Annexure -03 - Construction Material Trucks are covered with tarpaulin





# Annexure- 04 Environment conditions monitoring reports.





## NOISE LEVEL MEASURMENT REPORT

Sample ID: N/04/23/6087	Report No. N/04/23/6087 Report			17/04/2023	
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	national Airport,			
Monitoring Done By	Laboratory	Laboratory Sample Description Type Ambient Noise			
Order Reference				11/04/2023 to 12/04/2023	
Calibration Certificate	AEC/0722/SM-3	Instrument Model	rument Model Sound level Mete		
Consent Number & Date	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date 13.05.2022	Instrument ID	AEC/E	AEC/EQ/2091	

Sr No	Location	Day Time (6AM-10PM) dB (A)		Night Time (10PM -6AM) dB (A)			Method		
	Location	Leq	Lmin	Lmax	Leq	Lmin	Lmax		
ŧ	Runway 27 End	66,5	65.1	67.9	60.7	59.7	51.8		
2	STP Terminal- 1	68.6	67.5	69.B	61.2	60.0	62.5		
3	CCR-2	65.4	64.7	66.2	58.4	57.6	59.2	EPCE Protocol for Arbitro Level Noise Montaring, July AEL/C/SAP/SSN/755 31	
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	18	65.8	64.9	66.8	57,3	56.5	58.2	Issue no A Issue data (In DA 7018	
7	Runway 14 End	66.3	65.2	67.5	59.6	58.9	60.5		
8	Project Office (Sahar)	63.4	52.2	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		

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





- Note:

  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.





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





### NOISE LEVEL MEASURMENT REPORT

	MOTSE FEATER LIEWSOKLIE	THE KEP OK!	
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. Chiatrapati Shivaji Maharaj Internatioi 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099 Maharashtra.	nal Airport,	
Monitoring Done By	Laboratory	Sample Description/Type	Ambient Noise
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date of Monitoring	18/0S/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

Sr No	Location	Day Ti	me (6AM dB (A)	-10PM)	Night 1	ime (10PN dB (A)	1-6AM)	Method	
		Leq	Lmin	Lmax	Leq	Lmin	Lmax		
1	Runway 27 End	68.4	67.8	69.1	59.4	58.7	60.1		
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	Apren Control	66.5	65.1	67.0	59.2	58.2	60.3	and the second of	
5	6 No Gate (Sahar)	68.6	65.7	69.7	63.7	62.8	64.7	CPGS Pratocal to Ambient Level Noise Masstoring July	
6	18	63.5	62.8	64,2	61.3	60.1	62.5	AEC/C/SAP/SAP/359 leave no. A leave date DI SA 2018	
7	Runway 14 End	68.2	67.0	69.5	62.6	61.7	63.6	11.55.550	
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		

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





### Note:

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









NOISE LEVEL 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 Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	national Airport,	117		
Monstoring Done By	Laboratory	Sample Description/Type Ambient No			
Order Reference	Work Order No.5700316635 Date-29.10.2022	Date of Montoring		08/06/2023 to 09/06/2023	
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound	Llevel Meter	
Consent Number & Date	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date 13.05.2022	Instrument IEI	AEC/E	Q/2091	

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	
2	5TP 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	CPCB Printecol for Artisent Level
5	6 No Gate (Sahar)	68.3	67,8	68.9	59.7	58.9	60.6	Noise Matitoring July AEC/C/SAP/SAM/35
6	18	64.6	63.8	65.4	54.9	54.1	55.8	no. A lesse date
7	Runway 14 End	6.9	68.7	69.3	63:7	62.8	64.6	0x04.7018
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	

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

Sarial Number	rial Number Industry  112 Airport (Busy Airport)	Limits in d8 (A) weighted scale				
Septem (Warringer	andostry	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



- 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.





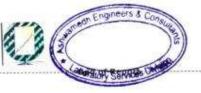


NOTSE LEVEL MEASURMENT REPORT

Sample ID: N/07/23/5785	Report No. N/07/23/5785		Report Date	24/07/2023		
Sample u.r. N/U//23/3/02	Within and Market No. 2					
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter Ist Floor, Terminal 18, Santacruz Mumbai-400099 Maharashtra	national Airport,				
Monitoring Done By	Laboratory	Sample Description/Type   Ambient Noise				
Order Reference	SO. No. 5700330185	Date of Mondoring		18/07/2023 to 19/07/2023		
Calibration Certificate	AEC/0722/5M-3	instrument Model	Sound	1 level Meter		
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date 13.05.2022	Instrument IO	AEC/I	Q/2091		

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	
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	EPCS Protocol for
5	6 No Gate (Sahar)	68.6	67.4	69.7	62.7	61.5	63.2	Ambiert Level Roise Montannig July
6	38	59.6	58.7	60.4	53.2	52.1	54.3	SEC/E/SAP/SAM/35B 3E Issue 16 A Issue date
7	Runway 14 End	65.4	64.3	66.5	60.6	59.8	61.5	0:04.208
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	50.7	
10	OWC Kurla 63.5 62	62.3	64.7	57.8	56.7	58.9		
				Limit			-0000	
	As Per th	e Environ	ment (Pr	otection)		86, Schedi	A set decided and the set of the	anala
Serial N	Aumber 1	ndustry		Day	(6 a.m. to	nits in dB (A	and the second section of the second section is the	p.m. to 6 a.m.)

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



70

112

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.

Airport (Busy Airport)



65



AEC F REP 1-G Page Left





NOISE LEVEL MEASURMENT REPORT

Nample ID: N/09/23/5018	Report No. N/09/23/5018	Report No. N/09/23/5018 Repo				
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 18, Santacrus Mumbai-400099 Maharashtra	national Airport,				
Monitoring Done By	Laboratory	Sample Description Type   Ambient Noise				
Order Reference	Work Order No. 5700330185 Date-22.08.2003	Date of Monstoring	29/08/ 30/08/	2023 to 2023		
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Sound	level Meter		
Consent Number & Date,	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date:13.05.2022	Instrument ID	AEC/E	AEC/EQ/2091		

Sr No	Location	Day Time (6AM-10PM) Night Time (10PM -6AM) dB (A) dB (A)		4 -6AM)	Method			
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	66.2	65.0	67.5	62.7	61.5	63.9	
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	CPCB Pretocal for Ambient Level
5	6 No Gate (Sahar)	68.7	67.5	69.9	63.5	62.8	64.2	Naise Munitaring: July 4EC/C/SAP/SAM/3SS
6	18	63,4	62.5	64.3	56.5	55.2	57.8	na. 4. loose fains
7	Runway 14 End	66.1	65.0	67.3	62.5	61.7	63.4	0104.2018
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	

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

Serial

Number

112

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Day (6 a.m. to 10 p.m.)

70

End of Report

Industry

Airport (Busy Airport)

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.



Night (10 p.m. to 6 a.m.)

65

Limits in dB (A) weighted scale



AEC FREP 1-G





NOISE LEVEL MEASURMENT REPORT

Sample ID: N/09/23/5481	Report No. N/09/23/5481	- 10	Report Date	22/09/2023		
nample its in object produ	Magnition (4) 03/23/3401	report time	55/09/2053			
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 18, Santacniz Mumbai-400099 Maharashtra	national Airport,				
Monitoring Done By	Laboratory	Sample Description/Type				
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	i level Meter		
Consent Number & Date.	Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 Date 13.05.2022	Instrument ID	AEC/E	Q/2091		

Sr No	Location	Day Ti	me (6AM dB (A)	-10PM)	Night T	ime (10P dB (A)	M -6AM)	Method
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Rumway 27 End	56.4	65.1	67.8	61.8	60.9	62.7	
2	STP Terminal- 1	63.3	62.3	64.4	56.7	55.9	57.6	
3	CCR-2	58.3	67.1	69.5	63.2	62.4	64	
4	Apron Control	65.5	64.3	66.7	59.5	58.3	60.8	CPCB Protocol for
5	6 No Gate (Sahar)	69.3	68.7	70.0	63.5	62.3	64.5	Ambient Level Noise Monitoring
6	18	61.5	60.3	62.8	51.5	50.7	52.4	July 2015 AEC/C/SAP/SAM/3: & 36
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 th	e Environ	ment (Pro	otection)	Rules, 198	6, Sched	ule -I	
Sprial N	lumber	Industry			Lim	its in d8 (A	A) weighted	scale
O'CI NEIL IN	ial Number Industry			Day (	5 a.m. to 1	0 p.m.)	Night (10	p.m. to 6 a.m.)

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Airport (Busy Airport)



70

112

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



65



AEC FREP 1-G Page 1 of 1





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 Internation 1 <sup>st</sup> Floor, Terminal 18, Santacruz (E) Mumbai 400099, Maharashtra.	ivaji Maharaj International Airport, inal 18, Santacruz (E)			
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.0</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 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 (E)	AEC/TH/RDS-02	Calibration Certificate No	ECL/AEC/2022- 23/FLOW/3936A		

Mete	orological [	Data / E	nvironi	menta	I Conditions		
Average Wind velocity 3.1 km/h	Wind Direction Relative Humi W (Max./Min.):67		e Humidiny		Temperature x./Min.) 34/28°C	Duration of Survey 24 h	
Parameter	Result	5	NAAQS# 2009	Unit	TANK TANK	ethod	
Chemical Testing; Group:	Atmospheric Poli	lution					
Sulphur Dioxide (SO <sub>2</sub> )	8.3		80	µg/m³	(\$1982 (Part 2): 200)		
Nitrogen Dioxide (NO <sub>2</sub> )	28.1		80	µg/m³	(5.5/82 (Part 6), 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	80		1000	µg/m³	IS SIR2 (Part 20): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	38		60	µg/m³	CPC8 Sudelines, Volume I 36/2012-13, Page no 15		
Lead (Pb)	BLQ (LOQ:0.0	02)	Х	µg/m³	894/825/A-36/010 a Conpendum Method (0-31-5-3-2		
Carbon Monoxide (CO)	1.10		4	mg/m <sup>3</sup>	CPCB Guidelines, Volume II. 37/2012-G, Page to IS-2013		
Ammonia (NH <sub>2</sub> )	30		400	pg/m³	EPEB Guidelines, Volume 1:35	1/70/2-(5. Page no. 25: 70/3	

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

TWA Time Weighted Average

NAAQN (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, National Ambient Air Quality Standards (Industrial, Residential).

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





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



AEC FREP 1-8 Page no. Laft





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. Chhatrapatr Shivaji Maharaj Internatior 1º Floor, Terrimia LB, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>20</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 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

Meter	orological D	ata / Enviro	onm	enta	I Conditions		
Average Wind velocity 11 km/h	Wind-Direction W	Relative Humodaty (Max./Min.):67/62%		Femperature (Max./Min.) 34/28		Daration of Survey 24 h	
Parameter	Result	1111	15#	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (50 <sub>2</sub> )	7.3	80		ig/m²	15 5187 (Fart 7): 200)		
Nitrogen Dioxide (NO <sub>2</sub> )	26.2	80	- 1	ig/m³	15 5:87 (Part 6): 2506		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	76	100	1	ug/m³	IS 5/87 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM25	33	60		ug/m³	SPER Suidelines. Volume L36/2017-13. Page no (5: 200)		
Lead (Pb)	BLQ (LOQ:0.0	)2)		ig/m³	FFA/825/R-96/310 a Compositive Method (0-31-5-3.2		
Carbon Monoxide (CO)	1.03	1341		ng/m <sup>7</sup>	EPCS Eudelines, Values II. 377/2012-12. Page no (6:2012)		
Ammonia (NH <sub>1</sub> )	BLQ (LOQ:2	400		µg/m¹	CPCS Suidelines, Volume 1,3672017-12, Page no 35-7013		

BLQ Below Limit of Quantification, LOQ Limit of Quantification

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Indiestrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM., PM., Lead and Aminonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





- 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.





AEC F REP I-B Page no Lof L





AMOTERIT ATD QUALITY MONTTODING DEDORT

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 Internationi 1" Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2</sub> x: 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	13/04/2023
Sampling Procedure	As per Method Reference	Dute-Start of Analysis	13/04/2023
(irder Reference	Work Order No.5700316635 Date-29.10.2022	Dute-Completsin of Analysis	18/04/2023
Sampling Equipment II3	AEC/TH/RDS-04	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936A

Meter	orological [	Data / I	Environi	menta	I Conditions		
Average Wind velocity 11 km/h	Wind Direction W	Wind Direction Relative Humidity Temperar		Temperature x./Min.) 34/28°C	Duration of Survey 24 h		
Parameter	Result	s	NAAQS# 2009	Unit	Me	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	10.4		80	µg/m³	IS \$182 (Part 2): 2001		
Nitrogen Dioxide (NO;)	31.4		80	µg/m <sup>1</sup>	(5.5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM:::	92		100	µg/m³	IS \$187 (Part 77) (2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	52		60	μg/m <sup>1</sup>	DPDS Sudelines, Volume 1,767,7092-03, Page 10, 5, 7015		
Lead (Pb)	BLQ (LOQ:0.02)		0.0	µg/m³	[PA/825/R-95/00 a Compandium Method (0-3) 5-12		
Carbon Monoxide (CO)	1.56		4	mg/m <sup>3</sup>	CPCB Suidelines, Volume II, 37/2012-13, Page on 16:2013		
Ammonia (NH <sub>1</sub> )	33		400	μg/m <sup>3</sup>	CPCB Guidelines, Volume (35/2012/G. Page to 35, 7013)		

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

TWA Time Weighted Average 8 NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>1.5</sub> PM<sub>2.5</sub> Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical)





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.





AEC/F/REP/E-B Page no. 1 nf 1





AMPLEME AND QUALITY MONITORING BEDORT

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 Shiyaji Maharaj Internation 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Shivaji Maharaj International Airport, minal 1B, Santacruz (E)			
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	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		

Mete	orological [	Data / E	nvironi	nenta	I Conditions		
Average Wind velocity 11 km/h	Wind Direction N-W	Wind Direction Relative Humidity Temp		Temperature x./Min.) 34/29°C	Duration of Survey 24 h		
Parameter	Result	s	NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (SO <sub>2</sub> )	9.4		80	µg/m³	(9.592),Part 2):2001		
Nitrogen Dioxide (NO <sub>2</sub> )	26.8		80	µg/m³	15 5182 (Fart 6): 2006		
Particulate Matter (size less than 10 μm) or PM <sub>16</sub>	79		100	µg/т*	(K S162 (Part 20) 2006		
Particulate Matter (size less than 2.5 µm) or PM;	37		60	μg/m³	CPSB Suddines, Volume I 36/20/2-G, Page vol 5: 2513		
Lead (Pb)	BLQ (LOQ:0.0		100	µg/m¹	EPA/625/R-55/010 a Compension Method (0-31-6-3)		
Carbon Monoxide (CO)	1.0 4 mg/m <sup>3</sup> CRCB Sudelines Volume 9 37		577/2012-13, Page no 16/2013				
Ammonia (NH <sub>3</sub> )	28.5		400	µg/m1	DPD8 Guidelines, Volume 1,35/7007-13, Fage no 35-700		

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

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

Ninad Soundankar





- 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.



SEC F REP 1-8 Page no. I of I





AMBIENT ATD QUALITY MONTTODING DEDORT

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. Chharrapati Shivaji Maharaj Internation 1st Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	Anna Carrella de C
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2.5</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	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 1D	AEC/TH/RDS-02	Calibration Certificate No.	ECL/AEC/2022- 23/FLOW/3936A

Meter	orological D	Data / Environ	menta	I Conditions	3	
Average Wind velocity 9.6 km/h	Wind Direction S-E				Duration of Survey 24 h	
Parameter	Result	s NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	10.4	80	μg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	31.1	80	µg/m³	IS 5(82 (Fart 6): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	84	100	μg/m³	IS 5187 (Part 23): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	42	60	μg/m³	CPC8 So-delines, Volume 136/20/2-03. Page no.15. 73/13		
Lead (Pb)	BLQ (LOQ:0.0	02)	μg/m³	EPA/825/8-95/0/8 a Compandium Method 10:31 8:3.2		
Carbon Monoxide (CO)	1.24	4	mg/m³	CPC8 Guidelines, Volume II, 37/2012-13, Page no IE 2013		
Ammonia (NH <sub>3</sub> )	36	400	µg/m³	CPSB Suidelines, Volume I.38	E/2012-03. Page no 35: 2013	
				4		

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, Nitrugen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Mata Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





### Note:

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





AEC F REP/1-8

Page no Lof I





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 Internation 1" Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
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 <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>23</sub> : 1 x 1 no. Filter paper 50 <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	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

Mete	orological D	Data / Er	vironr	nenta	I Conditions	5	
Average Wind velocity 9.8 km/h	Wind Direction. S-E	rction Relative Humidity		Temperature (Max./Min.) 32/28°C		Duration of Survey 24 h	
Parameter	Result	s	NAAQS# 2009	Unit	M	Method	
Chemical Testing; Group:	Atmospheric Pol	lution					
Sulphur Dioxide (50;)	8.3		80	µg/m³	IS 5(87 (Part 7) 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	28.4		80	µg/m³	(\$ 5187 (Part 5): 2006		
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	79		100	μg/m <sup>3</sup>	(\$.5/82 (Part 73): 2006		
Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	36		60	μg/m³	CPCB Suidekner, Volume 1.36/2012-15. Page no 15.		
Lead (Pb)	BLQ (LOQ:0.0	02)	.1	μg/m³	EPA/625/R-96/0/0 a Compendium Method (0-316-32		
Carbon Monoxide (CO)	1.11		4	mg/m <sup>3</sup>	CPCB Guidelines, Volume II, 37/2012-13, Page no 18:2013		
Ammonia (NH <sub>2</sub> )	BLQ (LOQ:2		400	µg/m³	CPC# Sudelines. Volume (36/2012-12 Page na 35: 2013		

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

TWA Time Weighted Average a NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>21</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by





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





AEC F REP 1-B Page no 1 of 1





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 Internation 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	nal Airport,	America
Sampling done by	Laboratory	Sample Description/ Type	Ambient Air
Sampling Location	OWC Kuria	Date-Sampling	18/05/2023 to 19/05/2023
Sample Quantity/ Packing	PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>2,5</sub> ! 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date-Receipt of Sample	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

Meter	orological D	Data / E	nviron	nenta	I Conditions	
Average Wind velocity 9.8 km/h	Wind Direction S-E	520000000	ive Humidity Temperature Min.):71/68% (Max./Min.):32/28°C			Duration of Survey 24 h
Parameter	Results		NAAQS # 2009	Unit	Me	ethod
Chemical Testing; Group:	Atmospheric Pol	lution				
Sulphur Dioxide (SO <sub>2</sub> )	12.5		80	µg/m³	IS 5/82 (Part 7): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	32.8		80	µg/m³	IS 5/82 (Part 6): 2008	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	88		100	μg/m <sup>3</sup>	(5 5/82 (Part 73): 2008	
Particulate Matter (size less than 2,5 µm) or PM <sub>2.5</sub>	45		60	μg/m³	CPCB Suidelines, Valume (36/2012/13, Page no.15, 2017)	
Lead (Pb)	BLQ (LOQ:0.02)			µg/m³	EPA/E25/R-BE/DG a Corperdium Method (G-II) 6 I	
Carbon Monoxide (CO)	1.44		4	mg/m³	CPC8 Guidelines, Valume II, 37/2012-13, Page no 16:20	
Ammonia (NH <sub>3</sub> )	30.8		400	µg/m³	CPCB Guidelines, Valume (26/2017-13, Page no 35, 201	

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

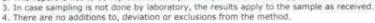
TWA Time Weighted Average
# NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM11, PM23, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical

Reviewed & Authorised by



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







AEC F REP. 1-B

Page no.1 of 1





### 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 Internation 1ª Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	al Airport,	
Sampling done by	Laboratory	Sample Description: Type	Ambient Air
Sampling Location	Sarvodaya Hospital (Ghatkopar)	Date-Sampling	18/05/2023 to 19/05/2023
PM <sub>10</sub> , Lead: 1 x 3 no. Filter paper PM <sub>25</sub> : 1 x 1 no. Filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>1</sub> : 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

Meter	orological D	Data / E	nvironr	nenta	I Conditions	
Average Wind velocity 9.8 km/h	Wind Direction   Relative Humidity   S-E   (Max./Min.);71/68%   Results   NAQS // 2009		idity Temperature		Duration of Survey 24 h	
Parameter				Unit	Method	
Chemical Testing; Group:	Atmospheric Poli	lution				
Sulphur Dioxide (SO <sub>2</sub> )	9,4		80	µg/m³	IS 5/82 (Part 2): 2001	
Nitrogen Dioxide (NO <sub>2</sub> )	27.6		80	µg/m³	15 5/87 (Part 6): 2006	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	75		100	µg/m³	IS 987 (Part 23) 2005	
Particulate Matter (size less than 2.5 µm) or PM <sub>2.8</sub>	34		60	µg/m³	CPC8 Guidelines. Valume I 25/2012-13. Page 4s 5: 2013	
Lead (Pb)	BLQ (LOQ:0.02)		T	μg/m³	EPA/825/R-96/810 a Compared un Method 10-31 6-3	
Carbon Monoxide (CO)	1.08		4	mg/m <sup>1</sup>	CPC8 Guidelines, Volume II, 37/2012-13, Page va IS 21	
Ammonia (NH <sub>1</sub> )	27		400	µg/m <sup>1</sup>	CPC8 Guidelines, Volume (38/2012-G. Page vo. 35: 2010	

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

BLO Below Limit of Quantification, 1332, Limit of Quantification of Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by





- 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.





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





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/537	7 Report No. AA/06/23/5377	Report Date	18/06/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation Ist Floor, Terminal 1-B, Santacruz(E). Mumbai-400099, Maharashtra	al Airport,	
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Project Office Sahar	Date - Sampling	08/06/2023tc 09/06/2023
Sample Quantity / Packing	PM10, Pb: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH2: 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

	Meteorologica	Data / Env	ironmen	tal Conditions		
Average Wind Velocity 10.3 km/h	Wind Direction 5-W	Relative Hum (Max./Min.): 7	CONTROL STATE	Temperature (Max./Min.): 31/27°C	Duration of Survey 24 h	
Parameter	Result	t NAAQS# 2009		N N	Method	
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	9.2	80	µg/m³	IS 5687 (Part 2): 2001		
Nitrogen Dioxide (NO2)	30	80	µg/m³	IS 5682 (Part 6) 7006		
Particulate Matter (size les than 10 µm) or PM <sub>10</sub>	s <b>84</b>	100	µg/m³	IS 562 (Part 73) 7005		
Particulate Matter (size les than 2.5µm) or PM2.5	s 41	60	µg/m³	CPC# Suideline, Volume 135/25	17-13. Page No.15-2007	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EFA/E25/R-9E/StD + Compand	EPA/625/R-98/BIB a Compandium Method IS-315 17	
Carbon Monoxide (CO)	1.28	4	mg/m³	CPCE Guidelines, Valume II. 377	CPDE Guidelines, Valume II. 37/2012-03, Page no IE-2013	
Ammonia (NH <sub>3</sub> )	35.9	400	µg/m³	CPCE Sudelines, Volume 13672	CPCE Suidelines: Volume 136/2012 (3: Page No.35, 2013)	

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

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, 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

- High

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Page 1 of 2





Sample ID : AA/06/23/5377

Report No. AA/06/23/5377

Report Date

18/06/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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

  This report is not to be reproduced except in full, without written approval of the laboratory.
- In case sampling is not done by laboratory, the results apply to the sample as received.
   There are no additions to, deviations or exclusions from the method.





AEC/F/REP/I B Page 2 of 2





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/06/23/537	8 Report No. AA/06/23/5378	Report Date	18/06/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation Ist Floor, Terminal 1-8, Santacruz(E), Mumbai-400099, Maharashtra	al Amport,	
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	MLCP Santacruz (T1)	Date - Sampling	08/06/2023tt:09/06/2023
Sample Quantity / Packing	PM10, Pb: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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

	Meteorologica	I Data / En	vironmen	ital Conditions		
Average Wind Velocity	Wind Direction	Relative Humidity (Max./Min.): 75/63%		Temperature	Duration of Survey 24 h	
10.3 km/h	S-W			(Max./Min.): 31/27°C		
Parameter	Result	NAAQ5# 2009	Unit		Method	
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	8.2	80	µg/m³	(S.SI82 (Pert.2): 200)		
Nitrogen Dioxide (NO2)	28.1	80	µg/m³	IS 5/82 (Pert 6): 2006	IS 5/82 (Pwrt 6): 2006	
Particulate Matter (size les than 10 µm) or PMix	79	100	µg/m³	IS Si87 (Part 23) 2006	15 S187 (Part 23) 2006	
Particulate Matter (size les than 2,5µm) or PM2.s	37	60	µg/m³	CPCB Sodeline, Volume (35/2)	00-01 Page No.G-2003	
Lead (as Pb)	BLQ (LOQ:0.02)	348	μg/m <sup>3</sup>	EPA/625/R-96/8/8 e Congest	EPA/825/R-96/0/0 a Compendium Method (0-3) 6-3.2	
Carbon Monoxide (CO)	1.1	4	mg/m²	CPC8 Suiditines, Volume II, 37/	CPCB Suidelines, Velume II, 37/2017-13, Page no Hr 2012	
Ammonia (NH <sub>3</sub> )	BLQ (LOQ:20)	400	µg/m³	DPCE Suidelines, Volume 136/7	2007-0. Page No 35-780.	

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

Engineers & Consular Services Division

End of Report





Sample 1D : AA/06/23/5378

Report No. AA/06/23/5378

18/06/2023





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





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





### AMBIENT AIR QUALITY MONITORING REPORT

	THE PARTY OF THE P	TO THE PROPERTY OF THE PARTY OF	
Sample ID : AA/06/23/537	<ol> <li>Report No. AA/06/23/5379</li> </ol>	Report Date	18/06/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	nal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	98/06/2023ti: 09/06/2023
Sample Quantity / Packing	PM10, Pb: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2: 30 mf x 6 no. plastic bottle NO2: 30 mf x 6 no. plastic bottle NH3: 10 mf 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-29.10.2822	Date - Completion of Analysis	17/06/2023

	Meteorologica	Data / Env	ironmen	tal Conditions		
Average Wind Velocity 10.3 km/h	Wind Direction S-W		Relative Humidity Temperature  Max./Min.): 75/63% (Max./Min.): 31/27°C		Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit			
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	12.2	80	µg/m³	IS 562 (Part 7) 2001		
Nitrogen Dioxide (NO2)	33.7	80	µg/m³	IS 5/82 (Part E): 2006		
Particulate Matter (size less than 10 µm) or PM18	94	100	µg/m³	IS 5/67 (Part 73):2006		
Particulate Matter (size less than 2.5µm) or PM2.5	54	60	µg/m³	CPSB Guideline, Volume I 36/20	12-13 Page No 15 2013	
Lead (as Pb)	BLQ (LOQ:0.02)	3	µg/m³	FFA/E25/R-95/BID a Compani	FF4/525/R-96/010 v Compensium Method IG-3.1 5 3.7	
Carbon Monoxide (CO)	1.68	4	mg/m³	CPCB Godelines, Volume II, 37/	7012-13. Page no 16: 2012	
Ammonia (NHs)	38.9	400	µg/m³	DPC8 Guidelines, Volume 136/7	D17 (3: Page No 35: 2013)	

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-D2

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

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

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by

8.3



Page 1 of 2





Sample ID : AA/06/23/5379

Report No. AA/06/23/5379

eport Date

18/06/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Note

- 1. The result listed refer only to the tested sample(s) and applicable parameter(s).
- 3. 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.





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





## AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/06/23/538	0 Report No. AA/06/23/5380	Report Date	18/06/2023
Name and address of Customer	Mumbai International Airport Ltd. Chiatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	al Amport,	
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 <sub>30</sub> , Pb; 1 x 3 no. filter paper PM <sub>2.8</sub> : 1 x 1 no. filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle CO: 1 no. bladder	Date - Receipt of Sample	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

	Meteorologica	I Data / Env	ironmen	tal Conditions		
Average Wind Velocity 10.3 km/h	Wind Direction S-W	Relative Hum (Max./Min.): 7		Temperature (Max./Min.): 31/27°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit		lethod	
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	10.2	80	ug/m³	(\$ 5182 (Pert 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	26.8	80	µg/m³	(1 Si82 (Part E) 7006		
Particulate Matter (size les than 18 µm) or PM10	5 79	100	µg/m³	65 5/82 (Part 22): 2006		
Particulate Matter (size les than 2.5µm) or PM <sub>2.5</sub>	5 38	60	µg/m³	CPC8 Scideline. Volume 136/78	17-13: Page No.15:2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/625/R-96/040 a Compand	EPA/825/R-96/000 a Compension Method (0-3) 8:17	
Carbon Monoxide (CO)	1	4	mg/m³	SPCB Guidelines, Volume 6, 277	7012-13: Page no 16: 2013	
Ammonia (NHs)	28.4	400	µg/m³	DPC8 Guidelines, Yolume 136/7	012-13. Page No 35-7013	

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



End of Report





Sample ID : AA/06/23/5380

Report No. AA/06/23/5380

Report Date

18/06/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### 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-





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





# 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 Internation 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	al Airport,		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air	
Sampling Location	Project Office Sahar	Date - Sampling	18/07/2023tc 19/07/2023	
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper. PM2.5: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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	

	Meteorologica	I Data / Env	ironment	tal Conditions	
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey
9.6 km/h	S-W	(Max./Min.): 7	9/67%	(Max./Min.): 30/29°C	24 h
Parameter	Result	NAAQS# 2009	Unit	м	ethod
Chemical Testing; Group	Atmospheric Polluti	on			
Sulphur Dioxide (SO <sub>2</sub> )	8.2	80	µg/m³	IS 5/82 (Part 2): 2001	
Nitrogen Dioxide (NO2)	26.2	80	µg/m³	15 5182 (Part 5): 2006	
Particulate Matter (size les than 10 µm) or PM10	78	100	µg/m³	IS StB2 (Part 23):2996	
Particulate Matter (size les than 2.5µm) or PM2.s	is <b>37</b>	60	µg/m³		
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/E25/R-96/010 a Compand	
Carbon Monoxide (CO)	1.06	4	mg/m <sup>3</sup>		Alexander and the second secon
Ammonia (NH <sub>3</sub> )	30.6	400	µg/m³	CPCB Buideknes, Volume 136/2	Bt2-13, Page No. 25: 7013

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by

Engineers & C allory Service

**End of Report** 





Sample ID: AA/07/23/5673

Report No. AA/07/23/5673

Report Date

26/07/2023



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Notes

- 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.





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





# AMBIENT AIR QUALITY MONITORING REPORT

Sample 1D : AA/07/23/567	4 Report No. AA/07/23/5674	Report Date	26/07/2023	
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 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	18/07/2023tc 19/07/2023	
Sample Quantity / Packing	PM:o, Lead: 1 x 3 no. filter paper PM2.3: 1 x 1 np. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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	

	Meteorologica	I Data / Env	ironmen	tal Conditions	
Average Wind Velocity 9.6 km/h	Wind Direction S-W	Relative Hum (Max./Min.): 7	2 4 5 7 7 9 7 9 7	Temperature (Max:/Min.): 29/26°C	Duration of Survey
	The second second	The second secon		The second secon	24 h
Parameter	Result	NAAQS# 2009	Unit	M	ethod
Chemical Testing; Group	Atmospheric Polluti	on			
Sulphur Dioxide (SO <sub>2</sub> )	6.1	80	μg/m³	(S 5/87 (Part 2): 200)	
Nitrogen Dioxide (NO2)	22.5	80	µg/m³	(S 5(82 (Part 6): 2006	
Particulate Matter (size les than 10 µm) or PM10	s 74	100	µg/m³	IS 5682 (Part 23):2006	
Particulate Matter (size les than 2.5µm) or PM2.5	s <b>33</b>	60	μg/m³	LPCB Guideline, Volume 1,35/201	7:13, Page No.15:2013
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	CPA/825/R-96/8/8 a Compende	um Method 10-3.1 8 3.2
Carbon Monoxide (CO)	0.92	4	mg/m³	CPCB Guidelines, Volume II. 37/2	017-13, Page nu l B: 2013
Ammonia (NH <sub>2</sub> )	BLQ (LOQ:20)	400	µg/m³	DPCB Guidelines, Volume L36/20	10-13: Page No.35: 2013

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



End of Report





Sample 1D : AA/07/23/5674

Report No. AA/07/23/5674

Report Date

26/07/2023

Ninad Soundankar

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### 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.





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





### 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 1-8, Santacruz(E), Mumbai-400099,Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Ambient Air		
Sampling Location	OWC Kurla	Date - Sampling	18/07/2023td 19/07/2023		
Sample Quantity / Packing	PM <sub>10</sub> , Lead: 1 x 3 no. filter paper PM <sub>2.9</sub> : 1 x 1 no. filter paper SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 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		

	Meteorologica	I Data / Env	ironmen	tal Conditions		
Average Wind Velocity 9.6 km/h	Wind Direction S-W			Temperature (Max./Min.): 30/27°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Polluti	on		0)15-4		
Sulphur Dioxide (SO <sub>2</sub> )	10.2	80	µg/m³	IS 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO2)	29.2	80	µg/m³	15 5/82 (Part 5): 2006		
Particulate Matter (size less than 10 µm) or PM:0	s <b>80</b>	100	μg/m³	IS 5/82 (Part 23)-2006		
Particulate Matter (size less than 2,5µm) or PM <sub>2,5</sub>	39	60	µg/m³	CPC8 Guideline, Volume I.36/201	2-13, Page No.15:2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	hd/w <sub>3</sub>	EPA/E25/R-96/900 a Camperde	EPA/E25/R-98/BIII a Compendum Method III-31 & 3.2	
Carbon Monoxide (CO)	1.28	-4	mg/m³	CPC8 Suidelines, Volume II, 37/2	CPC8 Guidelines, Volume II, 37/2012-13, Page no.16, 2013	
Ammonia (NH <sub>3</sub> )	31.4	400	µg/m³	CPC8 Suidelises, Volume 1:36/26	12-13. Page No 35. 7013	

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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







Sample ID : AA/07/23/5675

Report No. AA/07/23/5675

26/07/2023



- 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.





Page 2 of 2





# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/07/23/567	6 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	18/07/2023 to 19/07/2023		
Sample Quantity / Packing	PMsn, Lead: 1 x 3 no. filter paper PMs.s: 1 x 1 no. filter paper SOs: 30 ml x 6 no. plastic bottle NOs: 30 ml x 6 no. plastic bottle NHs: 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		

Meteorologica	I Data / Env	ironmen	tal Conditions	
Wind Direction	Relative Humidity		/ Temperature Duration	
S-W	(Max./Min.): 7	9/67%	(Max./Min.): 30/27°C	24 h
Result	NAAQS# 2009	Unit	м	ethod
Atmospheric Polluti	on			
7.1	80	µg/m³	(S 5/82 (Part 2): 7001	
24.1	80	μg/m <sup>3</sup>	15 5/82 (Part 6): 2006	
s 70	100	µg/m³	IS SIB2 (Part 23)-2006	
s <b>31</b>	60	µg/m³	CPD8 Guideline, Volume 136/201	2-13, Page No.15-2013
BLQ (LOQ:0.02)	1	µg/m³	FPA/625/R-98/R/D a Compandi	un Method 10-31 6 2 2
0.8	4	mg/m³	CPC8 Suidelines, Volume II, 37/2	012-13. Page no.16: 2013
25.4	400	µg/m³	CPC8 Guidelines, Valume 1:36/20	17-13. Page No.35: 2013
	Number   N	Wind Direction   Relative Hum   S-W   (Max./Min.): 7   Result   NAAQS#   2009	Wind Direction         Relative Humidity (Max./Min.): 79/67%           Result         NAAQS# 2009         Unit           Atmospheric Pollution         7.1         80         μg/m²           24.1         80         μg/m²           s         70         100         μg/m²           s         31         60         μg/m³           BLQ (LOQ:0.02)         1         μg/m³           0.8         4         mg/m³	S-W   (Max./Min.): 79/67%   (Max./Min.): 30/27°C     Result   NAAQS#   Unit   M     Atmospheric Pollution     7.1   80   μg/m³   (S 582 (Part 2): 200)     24.1   80   μg/m³   (S 582 (Part 2): 200)     5   70   100   μg/m³   (S 582 (Part 2): 2006     8   31   60   μg/m³   (CPD8 Sudeline: Volume 136/70)     BLQ

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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









Sample ID: AA/07/23/5676

Report No. AA/07/23/5676

Report Date

26/07/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Note:

- 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.





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





# 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	PM10, Lead: 1 x 3 no. filter paper PM2, s: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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		

	Meteorologica	Data / Env	ironment	tal Conditions		
Average Wind Velocity 10 km/h	Wind Direction S-W	d Direction Relative Humid		Temperature (Max./Min.): 31/28°C	Duration of Surve C 24 h	
Parameter	Result	NAAQS# 2009	Unit	and the large of the base of t	ethod	
Chemical Testing; Group	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	9.8	80	µg/m³	1S 5(82 (Part 2): 200)		
Nitrogen Dioxide (NO2)	28.5	80	μg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size les than 10 µm) or PM10	55 80	100	hā/w <sub>3</sub>	(\$ 5487 (Part 23)-2006	and the second second	
Particulate Matter (size les than 2.5µm) or PM2.5	ss <b>38</b>	60	µg/m³	CPDS Suideline. Volume 136/20		
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/E75/R-96/000a Compendium Method 10-31 6-3 4		
Carbon Monoxide (CO) 1.34 4 mg/m³ DRS Sudzkies, Volume II. 37/						
Ammonia (NHs)	30.6	400	µg/m²	CPCB Guidelines, Kolume 136/7012 13: Page No.35-2013		

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/08/23/5959

Report No. AA/08/23/5959

06/09/2023

MS45

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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





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





# AMBIENT AIR QUALITY MONITORING REPORT

Sample 1D : 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 Internationa 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	al Airport,	
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	PMio, Lead: 1 x 3 no. filter paper PMi.s: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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

	Meteorologica	Data / Env	ironment	al Conditions	
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey
10 km/h	5-W	(Max./Min.): 7	2/60%	(Max./Min.): 31/27°C	24 h
Parameter	Result	NAAQ5# 2009	Unit	М	ethod
Chemical Testing; Group	Atmospheric Polluti	on			
Sulphur Dioxide (SO <sub>2</sub> )	7.3	80	µg/m³	(\$ S62 (Part 7): 200)	
Nitrogen Dioxide (NO2)	24.1	80	µg/m³	(\$ 567 (Part 6): 2006	
Particulate Matter (size les than 10 µm) or PM10	is <b>73</b>	100	µg/m³	IS 5/82 (Part 23)-2006	
Particulate Matter (size les than 2.5µm) or PM2.5	is 34	60	μg/m²	CPE8 Guideline, Valume 138/28	
Lead (as Pb) BL(LOQ:		1	µg/m³	EPA/625/9-96/009a Compendo	
Carbon Monoxide (CO)	1.02	4	mg/m³	CPCB Guidelines, Visione II. 377	
Ammonia (NHa)	BLQ (LOQ:20)	400	μg/m/3	CPCB Guidelines, Volume (36/7)	017-13. Page No 35-7013

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

HSufr Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/08/23/5960

Report No. AA/08/23/5960

06/09/2023

- Att

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Note

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





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





## AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/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 Internationa 1st Floor, Terminal 1-B, Santacruz(E), Mumbai 400099, Maharashtra	il Airport,	
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	29/08/2023 to 30/08/202
Sample Quantity / Packing	PMio, Lead: 1 x 3 no filter paper PM2.5: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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

	Meteorologica	Data / Env	ironment	tal Conditions	Michigan Company	
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey	
10 km/h	S-W	(Max./Min.): 7	2/60%	(Max./Min.): 31/27°C	24 h	
Parameter	Result	NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group	: Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	11	80	µg/m³	(5.5/82 (Part 7): 200)		
Nitrogen Dioxide (NO>)	29.6	80	μg/m³	IS SIBZ (Part 6): 2006		
Particulate Matter (size les than 10 µm) or PM±o	ss <b>83</b>	100	µg/m³	15 5182 (Part 23) 7086		
Particulate Matter (size let than 2,5µm) or PM2.s	55 44	60	µg/m³	Jana Canada Canada	CPDB Guideline, Volume (35/2012-13, Page No.15/2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m <sup>a</sup>	EPA/E75/R-9E/0/0a Compands	NATIONAL PROPERTY.	
Carbon Monoxide (CO)	1.49	4	mg/m³		DPCR Sudelines, Volume II, 37/2012-G. Page no.16, 70-3	
Ammonia (NHs)	31.8	400	µg/m³	CPCB Guidelines, Volume 136/7	017-13, Page No 35-7813	

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

Wot Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/08/23/5961

Report No. AA/08/23/5961

Report Date

06/09/2023



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





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





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/08/23/596	2 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 30/08/202		
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NHx: 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		

	Meteorologica	Data / Env	ironment	tal Conditions	
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey
10 km/h	S-W	(Max./Min.): 7	2/60%	(Max./Min.): 31/27°C	24 h
Parameter	Result	NAAQS# 2009	Unit	м	ethod
Chemical Testing; Group:	Atmospheric Polluti	on			
Sulphur Dioxide (SO <sub>2</sub> )	8.6	80	μg/m³	IS 982 (Part 2): 2001	
Nitrogen Diaxide (NO2)	27.4	80	μg/m <sup>3</sup>	IS S82 (Part 6): 2006	
Particulate Matter (size les than 10 µm) or PM:	s 76	100	μg/m <sup>3</sup>	15.5987 (Part 23) 2006	
Particulate Matter (size les than 2.5µm) or PM <sub>2.5</sub>	s 35	60	μg/m³	IPC8 Guideline, Volume 1.25/20	
Lead (as Pb)	BLQ (LOQ:0.02)		µg/m³	EPA/625/R-96/DIDa Compendion Method ID-31 & 3.4	
Carbon Monoxide (CC)	1.1	4	mg/m³	CPCB Guidelines, Volume II. 37/7	7012-13: Page no.16: 2013
Ammonia (NH»)	26.9	400	µg/m³	CPCB Suidelines, Volume 1:36/73	312-13. Page No.35-2013

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

TWA Time Weighted Average

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

Sampling Equipment ID: AEC/TH/RDS-02

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/08/23/5962

Report No. AA/08/23/5962

Report Date

06/09/2023

Marks.

Ninad Sucrational Technical Manager (Chemical) Reviewed & Authorised by



#### Note

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





AEC/F/REP/1 Page 2 of 2





## AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/546	3 Report No. AA/09/23/5463	Report Date	22/09/2023		
Name and address of Customer	ad address of Chatrapati Shiyaii Maharai International Airport.				
Sampling done by	Laboratory	Sample Description / Type	Ambient Air		
Sampling Location	Project Office Sahar	Date - Sampling	14/09/2023 to 15/09/2023		
Sample Quantity / Packing	PM10, Lead: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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		

	Meteorologica	Data / Env	ironment	tal Conditions	
Average Wind Velocity 11.2 km/h	Wind Direction S-E	Relative Humidity (Max./Min.): 75/70%		Temperature (Max./Min.): 33/27°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	М	ethod
Chemical Testing; Group:	Atmospheric Polluti	on			
Sulphur Dioxide (SO <sub>2</sub> )	11	80	µg/m³	(8.5(82 (Part 2): 200)	
Nitrogen Dioxide (NO2)	30	80	µg/m³	(S 5(82 (Part 5): 7806	
Particulate Matter (size les than 10 µm) or PM:s	s <b>83</b>	100	hā/wa	IS 5(82 (Pert 23) 2006	
Particulate Matter (size les than 2.5µm) or PM2.5	s 40	60	µg/m³	CPDS Guideline. Volume 135/28	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/625/R-96/000 a Compandium Method (G-3) S 17	
Carbon Monoxide (CO)	1.41	4	mg/m³	SPCB Guidelines, Volume 11, 37/7	70/2-13, Page no.16, 70/3
Ammonia (NHs)	33.7	400	µg/m³	CPCB Guidelines, Volume 1:36/29/2-13, Page No.35, 29/3	

BLQ: Below Limit of Quantification, LQQ: Limit of Quantification

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as:

24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, Lead and Ammonia, 1 hour TWA in

case of Carbon Monoxide

Sampling Equipment ID: AEC/TH/RDS-02

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

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







Sample ID : AA/09/23/5463

Report No. AA/09/23/5463

Report Date

22/09/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Note

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





Page 2 of 2





## AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/546-	4 Report No. AA/09/23/5464	Report Date	22/09/2023		
Name and address of Customer	Chhatranati Shivaji Maharaj International Airport				
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	PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 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		

	Meteorologica	I Data / Env	ironmen	tal Conditions		
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey	
11.2 km/h	S-E	(Max./Min.): 7	5/70%	(Max./Min.): 33/27°C	24 h	
Parameter	Result	NAAQS# 2009	Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	7.3	80	µg/m³	IS 5/82 (Part 7): 7001		
Nitrogen Dioxide (NO <sub>2</sub> )	26.7	80	µg/m³	IS 5/82 (Part 6): 2005		
Particulate Matter (size les than 10 µm) or PM10	5 70	100	µg/m³	IS 5982 (Part 23):2006		
Particulate Matter (size les than 2.5µm) or PM2.3	s <b>31</b>	60	µg/m³	EPEB Gordeline, Volume (36/20)	2-13: Page No.15:2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/625/R-96/00 a Compardium Method (0-318-37)		
Carbon Monoxide (CO)	1.11	4	mg/m³	CPC8 Guidelines, Volume II, 27/2	CPC8 Guidelines, Volume II, 37/7012-13, Page no IE-2013	
Ammonia (NH <sub>3</sub> )	BLQ (LOO:20)	400	hð/m <sub>g</sub>	CPDB Suddines, Volume 138/7897-13 Page No.35, 7813		

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

Minad Soundan

Ninad Soundarikar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/09/23/5464

Report No. AA/09/23/5464

Report Date

22/09/2023



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





Page 2 of 2





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/546	S Report No. AA/09/23/5465	Report Date	22/09/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationi 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	al Airport,	
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	OWC Kurla	Date - Sampling	14/09/2023 to 15/09/2023
Sample Quantity / Packing			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

	Meteorologica	I Data / Env	ironmen	tal Conditions		
Average Wind Velocity 11.2 km/h	Wind Direction S-E	Relative Humidity (Max./Min.): 75/70%		Temperature (Max./Min.): 33/27°C	Duration of Surve	
Parameter	Result	NAAQS# 2009	NAAQS# Unit		ethod	
Chemical Testing; Group	Atmospheric Polluti	ion		- v		
Sulphur Dioxide (SO <sub>2</sub> )	12.2	80	µg/m³	15 5(82 (Part 2): 200)		
Nitrogen Dioxide (NO <sub>2</sub> )	32.5	80	µg/m³	IS 5(82 (Part 6): 2506		
Particulate Matter (size les than 10 µm) or PM10	s 85	100	µg/m³	IS 5182 (Part 23) 2006		
Particulate Matter (size les than 2.5µm) or PM <sub>2.9</sub>	s <b>47</b>	60	μg/m³	CPCB Suideline, Volume i 36/20	2-13. Page No.15-2013	
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/E25/R-96/DIS a Compandium Method ID-31 B-3.7		
Carbon Monoxide (CO)	1.55	-4	mg/m²	CPC8 Goldelines, Valume II. 37/2	1912-13. Page no 16. 2013	
Ammonia (NH3)	34.9	400	µg/m³	CPC8 Guidelines, Volume 138/29	37-13. Page No.35. 79/3	

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



End of Report





Sample ID : AA/09/23/5465

Report No. AA/09/23/5465

Report Date

22/09/2023

Ninad Soundenkar Technical Manager (Chemical) Reviewed & Authorised by



#### Note:

- 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.





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





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/09/23/546	6 Report No. AA/09/23/5466	Report Date	22/09/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internationa 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	al Airport,	
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			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

	Meteorologica	I Data / Env	ironment	tal Conditions		
Average Wind Velocity	Wind Direction	Relative Humidity		Temperature	Duration of Survey	
11.2 km/h	S-E	(Max./Min.): 7	5/70%	(Max./Min.): 33/27°C	24 h	
Parameter	Result	NAAQS# Unit		м	ethod	
Chemical Testing; Group:	Atmospheric Polluti	on				
Sulphur Dioxide (SO <sub>2</sub> )	8.6	80	µg/m³	/S 5/82 (Part 2): 2001		
Nitrogen Dioxide (NO2)	25.2	80	µg/m³	IS 5/82 (Part 5): 7805		
Particulate Matter (size les than 10 µm) or PM <sub>10</sub>	s 74	100	µg/m³	IS 5/82 (Part 23):2006		
Particulate Matter (size les than 2.5µm) or PM2.5	s <b>33</b>	60	µg/m³	CPC8 Guideline, Volume I 38/2012 (3: Page No 15:20:3		
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m³	EPA/E25/R-96/IND a Compendium Method ID-31 S 3.2		
Carbon Monoxide (CO)	1,21	- 4	mg/m³	CPC8 Guidelines, Volume II, 37/7	1017-13. Page no 16: 2013	
Ammonia (NH <sub>3</sub> )	28.8	400	µg/m³	CPCB Guidelines, Volume 139/20	012-13. 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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Page 1 of 2





Sample ID : AA/09/23/5466

there

Report No. AA/09/23/5466

Report Date

22/09/2023

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



#### Note:

- 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.





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



# NOISE LEVEL MEASUREMENT REPORT

	A		
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 Airpo First Floor, Terminal 18, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Dute-Monitoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabai & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No	20 Mi	65	Sou	und Level dB	(A) Fast Respo	nse	12/12/10/20
	Location	Time (h)	A	Inside	В	Outside	Difference
CA Termi	nal Gate No.8 D	G 125 KVA					
1	East	11:00	AL	89	81	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	84	64	24
			Average	88.5	Average	63.25	25.25

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by A Consultation Services Charges





# NOISE LEVEL MEASUREMENT REPORT

	MOTOR FEATE LIEUDOUFL	ILIVI ICEL OILI	
Sample II): 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 Airp First Floor, Terminal 18, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Eype	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Dese-Monitoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabai & SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No Location			So	and Level dB	(A) Fast Respo	nse	2722
	Location	Time (h)	A	Inside	В	Outside	Difference
T-1 C Pov	wer House DG 1	1010 KVA					
1	East	11:00	A1	99	8.1	74	25
2	West	11:05	A2:	96	B2:	//70	26
3	South	11:10	A3	92	83	66	26
4	North	11:20	A4	94	B4	69	25
			Average	95.25	Average	69.75	25.5

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

43

End of Report





# NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/04/23/3303	Report No.: N/04/23/3303N	Repo	in Date	17/04/2023		
Name and Address of Costomer	Mumbai International Airport Ltd Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (I Mumbai - 400099	oart,				
Monitoring Done By	Laboratory	Sample Description /Type		DG Noise Insertion Loss		
Order Reference	Work Order No.5700316635 Date 29.10.2022	Date-Monitoring		Date-Monitoring		13/04/2023
Calibration Consilicate	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	10		Soi	-			
	Location	Time (h)	A	Inside	В	Outside	Difference
T-I C Pov	ver House DG II	1 625 KVA					
11	East	1100	A1	96	B1	70	26
2	West	1105	A2	98	82	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







# NOISE LEVEL MEASUREMENT REPORT

	INDADE BETTER TELLOCITE		
Sample II): 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 Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By.	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29:10:2022	Date-Monitoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	1.6/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	SC No.	2016083645

Sr No Loca	was a series to be a series of		Soi	nse			
	Location	Time (h)	A	Inside	В	Outside	Difference
T-1C Pow	er House DG II	I 1010 KVA					
1	East	11:00	Ax	.92	81	67	25
- 2	West	11:05	:A2	95	82	68	27
3	South	11:10	A3	98	83	72	26
4	North	11:20	A4	96	B4	71	25
			Average	95.25	Average	69.5	25.75

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by End of Report





# 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 Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal B SLM 1699
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2015083645

Sr No	Location	Time (h)	Sound Level d8 (A) Fast Response				232
			A	Inside	В	Outside	Difference
T-1C Pow	ver House DG IV	2500 KVA					
1	East	11:00	AL	90	BI	63	27
2	West	11:05	A2	96	82	71	25
3	South	11:10	A3	99	B3	73	26
-4	North	11:20	/A4	98	84	73	25
			Average	95.75	Average	70	25.75

Ninad Soundankar Technical Manager (Ctiemical) Reviewed & Authorised by atoratory Services Division



Page No Lof L



# NOISE LEVEL MEASUREMENT REPORT

	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
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 18, Santacruz (E Mumbai - 400099	ort,	
Mointoring Done By	Laboratory	Sample Description /Type	DG Set VI Noise Insertion Loss
Onder Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Monstoring	13/04/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date.	Format 1.0/80/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				222 00000
			A	Inside	В	Outside	Difference
T-1 A Pov	ver House DG I	625 KVA					
1.	East	11:00	A1	90	81	66	24
2	West	11:05	A2	94	82	68	26
3	South	11:10	A3	98	83	71	27
4	North	11:20	A4	95	B4	70	25
			Average	94.25	Average	68,75	25.5

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by 0







## NOISE LEVEL MEASUREMENT REPORT

	ITOADE BETER THE CONTROL		
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. Chinatrapati Shivaji International Airport First Floor, Terminal 18, Santacruz (B Mumbai - 400099	ort,	
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				12020000
			A	Inside	В	Outside	Difference
T-1 A Pot	wer House DG I	II 625 KVA					
1	East	11:00	A1	94	81	69	25
2	West	11:05	A2	99	82	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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

Coratory Service Div End of Report----



Fage No 1 of 2



# NOISE LEVEL MEASUREMENT REPORT

	MOTOF FFAFF LIFUDOMEL	I LITTER OFFI	
Sample ID: N/04/23/3299	Report No.: N/04/23/3299N Report		17/04/2023
Name and Address of Costomer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Order Reference	Work Order No.5700316635 Date- 29.10.2022	Date-Monitoring	13/04/2023
Calibration Conificate	AEC/0722/5M-3	Instrument Model	Mahabal & SLM 1699
Consent Number & Date. 0.000111260/CR/2205000810 Date 13.05.2022		Sr. No.	2016083645

Sr No	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	В	Outside	Difference
MLCL Bui	lding DG 380 KV	/A					
1	£ast	11:00	AI	89	B1	64	25
2	West	11:05	A2	93	B2	66	27
33	South	11:10	.A3	97	B3	71	26
- 4	North	11:20	A4	:95	84	70	25
			Average	93.5	Average	67.75	25.75

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

Engineers & Co. End of Report





# 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 Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
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

Sr No	Location Time (h)	T (122) 1 (123)	So	und Level dB	(A) Fast Respo	inse	
Location	Location	Time (h)	A	Inside	8	Outside	Difference
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	84	60.6	26
	ndards as per MP0		Average	87.45	Average	61.45	26

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

Covatory Services

-End of Report-----





# NOISE LEVEL MEASUREMENT REPORT

	The second secon	I WILL I TAME OF ICE	
Sample ID: N/07/23/3464	Report No. N/07/23/3464N Report Do		24/07/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	Processor Control
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	22/SM-3 Instrument Model	
Consent Number & Date.	1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022	Sr. No.	2016083645

Sr No	Location Time (b)		So	und Level d8	(A) Fast Respo	inse	CONTRACTOR CO.
	Location	Time (h)	A	Inside	В	Outside	Difference
Ware Ho	use Portable Ho	use DG 125 KV	A				
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	83	62.7	26
4	North	11:20	A4	90.3	84	65.3	25
	ndards as per MP		Average	89.8	Average	64.05	25.75

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Page Na Lof 2



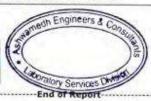
sales@ashwamedh.net +91-253-2392225

# NOISE LEVEL MEASUREMENT REPORT

	2 - 2	100.000	
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 Airpi First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
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

Sr No	1 23322	Location Time (h)	So	und Level dB	(A) Fast Respo	nse	
	Location		A	Inside	8	Outside	Difference
SCUB Are	a DG Set 380 K	VA 11 Nos					
1	East	11:00	A1	85	81	58	27
2	West	11:05	A2	88.6	B2	62.6	26
3	South	11:10	A3	86.7	В3	62.7	24
4	North	11:20	A4	89.2	B4	64.2	25
		1	Average	87.37	Average	61.87	25.5

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by







## NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3466	Report No. N/07/23/3466N	Report Date	24 (07 (2022
Sample 1D: 14/07/23/3400	Report Na. 19/07/23/3400N	24/07/2023	
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Onler Reference	SO. No. 5700330185	Date-Monitoring	20/07/2023
Calibration Certificate	AEC/0722/SM-3	Instrument Model	Mahabal & SLM 1699
7.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022		Sr. No.	2016083645

Sr No	Location	224000000000000000000000000000000000000	S	Sound Level dB (A) Fast Response				
	Location	on Time (h)	A	Inside	В	Outside	Difference	
Intec Po	ver House DG 6	04 KVA 12 Nos		AU				
1	East	11:00	A1	90.9	81	63.8	27.1	
2	West	11:05	A2	92.3	82	66.7	25.6	
3	South	11:10	АЗ	88.6	83	64.2	24.4	
4	North	11:20	A4	89.2	84	63	26.2	
			Average	90.25	Average	64.4	25.8	

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

A. J







sales@ashwamedh.net +91-253-2392225

# NOISE LEVEL MEASUREMENT REPORT

11 11 11 11 11 11 11 11 11 11 11 11 11	MOTOR PEACE LIEUCOUPL	ILITI ILLI OILI	
Sample ID: N/07/23/3467	Report No. N/07/23/3467N Report Dal		24/07/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099	ort,	
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise Insertion Loss
Order Reference	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 Sr. No. 13.05.2022		2016083645

Sr No		Location Time (h)	So	und Level dB	(A) Fast Respo	nse	
	Location		A	Inside	8	Outside	Difference
Intec Pov	wer House DG 6	25 KVA-13 Nos					
1	East	11:00	A1	88.2	B1,	62.2	26
2	West	11:05	A2	90.7	82	65.3	25.4
3	South	11:10	A3	92.8	B3	68.6	24.2
4	North	11:20	A4	90.2	84	65.2	25
			Average	90.4	Average	65.32	25.15

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

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

n Engineers &





# NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/07/23/3468	Report No. N/07/23/3468N	Report Da	tie 24/07/2023
Name and Address of Customer	Mumbai International Airport Lt. Chhatrapati Shivaji International Air First Floor, Terminal 1B, Santacruz ( Mumbai - 400099	port,	
Monitoring Done By	Laboratory	Sample Description /T	ype 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

Sr No	Location	The same of the	So	Sound Level dB (A) Fast Response						
Location	Time (h)	A	Inside	В	Outside	Difference				
Intec Po	ver House DG 5	00 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	83	65.8	24.3			
4	North	11:20	A4	87.4	B4	60.3	27.1			
			Average	87.5	Average	61.67	25.85			

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

atoratory Services On Services

-End of Report-----

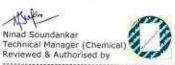


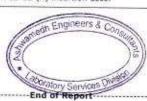


## NOISE LEVEL MEASUREMENT REPORT

	THORNE MENT HEN TIME TO CITE	THE PART WILL	
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 Airpor 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

Sr No	Location		So	Sound Level dB (A) Fast Response						
Location	Time (h)	A	Inside	В	Outside	Difference				
Intec Poi	nt 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	В3	60,6	25			
4	North	11:20	A4	87.7	B4	63.5	24.2			
			Average	87.2	Average	61.77	25.4			











## STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/548	6 Report No	SA/04/23/54	86	Report D	ind	18/04/2023		
Name and Address of Customer	Chhatrapati First Floor,	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099, Maharashtra.						
Sampling done by	Laboratory	Laboratory			Description / Typ	e Stack Emission		
				Date - 5a	impling	13/04/2023		
Sample Quantity Packing	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle		Date - Re	sceipt 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	11 13 14 10 10 10 10 10 10 10 10 10 10 10 10 10	W.O.No.5700316635 Date-29.10.2022		Date -Co of Analys		18/04/2023		
Calibration Certificate No.	31.12.2023			100000	Equipment (D)	AEC/EQ/1611		
Consent Number & Date Form	nat: 1.0/CAC/U	AN No 0000111	260/ CR/220	0500081	0 Date 13.05	2022		
Stack Details								
~Stack Identity		CA Terminal Gate No.8						
~Stack attached to		DG Set-1 125 KVA						
~Material of constructio	er	M.S						
~Stack height above gr	ound level	12 m						
~Stack diameter		0.10 m						
~Stack shape at top		Round						
~Type of Fuel		Diesel						
~Fuel Consumption		24 L/h			1 200000	75000000		
Paramete	r	Result	MPCB co		Unit	Method		
Chemical Testing; Gr	oup: Atmosp	heric Pollution	1					
Flue Gas Temperature		124			"C	(5 11755 (Part 3) 2008		
Flue Gas Velocity		11.1	50		m/s	5 (1255 (Part 3) 2008		
Flue Gas Flow Rate		227			Nm <sup>1</sup> /h	12 11255 (Part 3), 2008		
Particulate Matter (PM)		15	15	0	mg/Nm <sup>3</sup>	IS 9755 (Part 1):1985		
Sulphur Dioxide (SO2)		5.71	Not spe	cified	mg/Nm <sup>1</sup>	IS 1/255 (Part 2)-1595		
Sulphur Dioxide (SO <sub>2</sub> )		0.03	Not spe	ecified	Kg/d	IS 1/255 (Part 2):1985		
Oxides of Nitrogen (NO		16	Not spe	cified	mg/Nm <sup>3</sup>	G 1055 (Part 7) (985		

Technical Manager (Chemical) Reviewed & Authorised by



- 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.

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





AEC'E BEP 1-E





### STACK EMISSION MONITORING REPORT

Sample II) SA/04/23/548	88 Report N	o SA/04/23/548	38	Report Do	inc .	18/04/2023		
Name and Address of Customer	Chhatrapat First Floor	Aumbai International Airport Ltd.  Chhatrapati Shivaji International Airport,  First Floor, Terminal 18, Santacruz (E),  Mombai – 400099, Maharashtra.						
Sampling done by	Laboratory	Laboratory			Sescription / Ty	pe Stack Emission		
				Date - Sa	mpling	13/04/2023		
Sample Quantity Packing		SO <sub>2</sub> : 30 ml x 1 no, plastic bottle - NO <sub>2</sub> : 25 ml x 1 no, plastic bottle			ceipt of Sample	14/04/2023		
Sampling Procedure	15 11255 ( 2):1985. (	1S 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005			irt of Analysis	14/04/2023		
Order Reference	W.O.No.5700316635 Date-29.10.2022		Date -Cor of Analys		18/04/2023			
Calibration Certificate No	MEEPL/122 31.12.202	22/AEC/SMK/RM 3	05 dated	Sampling	Equipment (I)	AEC/EQ/1611		
Convert Number & Date Form			260/ CR/220	5000810	Date 13.05	2022		
Stack Details								
~Stack Identity		DG-2 T1 C Powerhouse						
~Stack attached to		DG Set 625 K	DG Set 625 KVA					
- Material of construction	on	M.S						
~Stack height above g	round level	22.7 m						
~Stack diameter		0.20 m						
~Stack shape at top		Round						
~Type of Fuel		Diesel						
~Fuel Consumption		25 L/h	20110270			- Company of		
Paramet	er	Result	MPCB co		Unit	Method		
Chemical Testing; Gr	oup: Atmos	pheric Pollution	,					
Flue Gas Temperature		105			°C	G 1055 (Fart 3) 2568		
Flue Gas Velocity		9.52			m/s	IS 0255 (Part 3) 2008		
Flue Gas Flow Rate		824			Nm³/h	(S )(255 (Part 3) 2005		
Particulate Matter (PM	)	19	15	0	mg/Nm <sup>1</sup>	IS 1095 (Part 1) 1985		
Sulphur Dioxide (SO <sub>2</sub> )		7.14	Not spe	ecified	mg/Nm³	IS 1035 (Part 2) (985		
		0.14	Not see	ecified.	Kq/d	IS 1755 (Part 7) (985		
Sulphur Dioxide (SO <sub>2</sub> )		0.14 Not spec			0.000	IS 10255 (Part 7) ISSS		

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- 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.

  Disclaimer.

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





AEC/F/REP/I-E Page Loft





## STACK EMISSION MONITORING REPORT

Sample Description / Type   Stack Er
199999
Sate - Sampling 13/04/2
Sete - Receipt of Sample 14/04/2
Date - Start of Analysis 14/04/2
Tate -Completion 18/04/2 of Analyses
iampling Equipment ID AEC/EQ/
of ?

Stack Details	
~Stack Identity	DG-3 T1 C Powerhouse
~Stack attached to	DG Set 1010 KVA
~Material of construction	M.5
~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

Result	Limits as per MPCB consent	Unit	Method		
spheric Pollution					
135	102	°C	S 9255 (Part 3) 2008		
12.7	140	m/s	G 1755 (Fart 3) 2008		
2241	•	Nm <sup>3</sup> /h	(5 0255 (Part 3) 2008		
23	150	mg/Nm³	IS 1755 (Part t) 1985		
5.71	Not specified	mg/Nm <sup>3</sup>	15 H255 (Part 25/985		
0.31	Not specified	Kg/d	15 17255 (Part 7) (1985)		
14.4	Not specified	mg/Nm <sup>1</sup>	tå 1/255 (Part 7) 1985		
	135 12.7 2241 23 5.71	Result   MPCB consent	Not specified   Not		

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- 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.

Disclaimer:

Information is supplied by the customer  $(\sim)$  and can affect the validity of results.





AEC'E REP. L-E. Page Lof L





sales@ashwamedh.net +91-253-2392225

# STACK EMISSION MONITORING REPORT

Sample II): SA/04/23/548	37 Report N	o: 5A/04/23/548	17	Report Da	TE .	18/04/2023		
Name and Address of ustomer	Chhatrapat First Floor,	nternational Air i Shivaji Internat Terminal 18, Sar 400099, Maharai	tional Airpon ntacruz (E),	t,				
Sampling done by	Laboratory	Laboratory			escription Ty	e Stack Emission		
			Date - Sar	mpling	13/04/2023			
Sample Quantity Packing		SO <sub>2</sub> : 30 ml x 1 no, plastic bottle NO <sub>2</sub> : 25 ml x 1 no, plastic bottle		Date - Re	ceipt of Sample	14/04/2023		
Sampling Procedure	1S 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005			Date - Sta	rt of Analysis	14/04/2023		
Order Reference	W.O.No.57 Date-29.10			Date -Cor of Analys		18/04/2023		
Calibration Certificate No.	MEEPL/122 31.12.202	2/AEC/SMK/RM- 3	05 dated	Sampling	Equipment (D)	AEC/EQ/1611		
Consent Number & Date For			260/ CR/220	5000810	Date 13.09	2022		
Stack Details								
~Stack Identity		DG-1 T1 C Powerhouse						
~Stack attached to		DG Set 1010 KVA						
~Material of construction	~Material of construction		M.S					
~Stack height above g	~Stack height above ground level 24.7 m.							
~Stack diameter		0.30 m						
~Stack shape at top		Round						
~Type of Fuel		Diesei:						
~Fuel Consumption		55 L/h						
The state of the s			V 500-5800					
Paramet	er	Result	Limits of		Unit	Method		
		Result	MPCB c		Unit	Method		
Paramet	roup: Atmos	Result	MPCB c		Unit	Method (£1035 (Part 8) 2008		
Paramet Chemical Testing; G	roup: Atmos	Result	MPCB c	onsent	107.0003			
Paramet Chemical Testing; Go Flue Gas Temperature	roup: Atmos	Result pheric Pollution 130	MPCB of	onsent	°c	15 1055 (Part 3) 2508		
Paramet Chemical Testing; Gr Flue Gas Temperature Flue Gas Velocity	roup: Atmos	Result pheric Pollution 130 12.4	MPCB of	onsent	°C m/s	II 1/255 (Part 3) 2568 II 1/755 (Part 3) 2569 IS 1/755 (Part 3) 2568 IS 1/255 (Part 3) 2568		
Paramet Chemical Testing; Go Flue Gas Temperature Flue Gas Velocity Flue Gas Flow Rate	roup: Atmos	Result pheric Pollution 130 12.4 2273	MPCB co	onsent 0	°C m/s Nm³/h	15 1/255 (Part 3) 2/568 15 1/755 (Part 3) 2/559 15 1/755 (Part 3) 2/508 15 1/255 (Part 3) 2/508 15 1/255 (Part 3) 1/885 15 1/255 (Part 3) 1/885		
Paramet Chemical Testing; Gr Flue Gas Temperature Flue Gas Velocity Flue Gas Flow Rate Particulate Matter (PM	roup: Atmos	Result pheric Pollution 130 12.4 2273 18	MPCB of	0 ecified	°C m/s Nm³/h mg/Nm³	II 1/255 (Part 3) 2568 II 1/755 (Part 3) 2569 IS 1/755 (Part 3) 2568 IS 1/255 (Part 3) 2568		





- 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.

Information is supplied by the customer (--) and can affect the validity of results.





ARC FREE LE Page Laft





## STACK EMISSION MONITORING REPORT

Sample II): 5A/04/23/552	7 Report N	o SA/G4/23/55	27	Report D	100	19/04/2023		
Name and Address of Customer	Chhatrapat First Floor,	Iumbai International Airport Ltd. hhatrapati Shivaji International Airport, irst Floor, Terminal 18, Santacruz (E), iumbai - 400099 Maharashtra.						
Sampling done by	Laboratory	Laboratory			Xescription / Ty	pc Stack Emission		
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				Date - Sa	mpling	13/04/2023		
Sample Quantity Packing		( x 1 no. plastic ) ( x 1 no. plastic		Date - Re	script of Sample	15/04/2023		
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005		Date - St	art of Analysis	15/04/2023			
Onder Reference	W.O.No.5700316635 Date-29.10.2022		Date -Co of Analys		19/04/2023			
Calibration Certificate No.	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023			Sampling	Equipment II)	AEC/EQ/1611		
Consent Number & Date Form			260/ CR/220	5000810	Date 13.05	,2022		
Stack Details								
~Stack Identity		DG-4 T1 C Powerhouse						
~Stack attached to		DG Set 2500 KVA						
~Material of construction	on	M.S	4.5					
~Stack height above gr	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						
Paramete	er	Result	MPCB co		Unit	Method		
Chemical Testing; Gr	oup: Atmos	heric Pollution	1					
Flue Gas Temperature		155			°C	(5.10255 (Fart 31) 2008		
Flue Gas Velocity		14.1			m/s	IS 11255 (Part 3) 2008		
Flue Gas Flow Rate		2375	,		Nm³/h	IS 11255 (Part 3), 2009		
Particulate Matter (PM)		24	150	).	mg/Nm <sup>3</sup>	15 11255 (Part 10 ISB5		
Sulphur Dioxide (SO <sub>2</sub> )		9.6	Not spe	cified	mg/Nm³	IS 11255 (Part 2) ISBS		
		0.5	Not spe	citied	Kq/d	15 9255 (Part 2) (985		
Sulphur Dioxide (SO <sub>2</sub> )		0.5	100000	70 10 200				

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





### Note:

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

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





AKC FREP I-E





### STACK EMISSION MONITORING REPORT

Sample ID: SA/04/23/552	24 Report N	SA/04/23/55	24	Report El	ote:	19/04/2023	
Name and Address of assomer	Chhatrapat First Floor,	nternational Ai i Shivaji Interna Terminal 18, Sa 400099, Mahara	tional Airpor ntacruz (E),	t,			
Sampling done by	Laboratory			Sample Description / Type		sc Stack Emission	
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				Date - St	ampling	13/04/2023	
Sample Quantity Packing		SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle		Date - Se	sceipt of Sample	15/04/2023	
Sampling Procedure		15 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005		Date - St	art of Analysis	15/04/2023	
Nider Reference		W.O.No.5700316635 Date-29.10.2022		Date -Co of Analy		19/04/2023	
alabration Certificate No.	MEEPL/122 31.12.2023	MEEPL/1222/AEC/SMK/RM-05 dated 31.12.2023			Equipment ID	AEC/EQ/1611	
Consent Number & Date Form	nat 1.0/CAC/U	AN No.0000111	260/ CR/220	500081	0 Date 13.05	2022	
Stack Details							
~Stack Identity		DG-I TI A Por	werhouse				
~Stack attached to		DG Set 625 K	VA				
~Material of construction	on	M.S					
~Stack height above gr	ound level	22.7 m					
~Stack diameter		0.15 m					
~Stack shape at top		Round					
~Type of Fuel		Diesel					
~Fuel Consumption		24 L/h					
Paramete	er	Result	MPCB co		Unit	Method	
Chemical Testing; Gr	oup: Atmosp	heric Pollution					
Flue Gas Temperature		110	3.5		1C	S ((255 (Part 3) 2008	
Flue Gas Velocity		8.88	- 4		m/s	S 11755 (Part 3):2008	
Flue Gas Flow Rate		427			Nm <sup>4</sup> 7h	(5 0255 (Part 3) 2008	
Particulate Matter (PM)		20	150	)	mg/Nm <sup>3</sup>	G 925E (Part 0:1985	
Sulphur Dioxide (SO <sub>2</sub> )		8.57	Not spe	cified	mg/Nm³	(5 1/255 (Fam 2) 1985	
Sulphur Dioxide (502)		0.09	Not spe	cified	Kg/d	IS 1755 (Part 2):1885	
					mg/Nm1	(S 1/255 (Part 7) 1985	

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- Note:

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

  2. This report is not to be reproduced except in full, without written approval of the laboratory.

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

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





AEC FIREP I-E Page Lof L





# STACK EMISSION MONITORING REPORT

		ne se contract	200000000000000000000000000000000000000		
Report No	SA/04/23/55	25	Report D	Mc .	19/04/2023
Chhatrapat First Floor,	Shivaji Interna Terminal 18, Sa				
Laboratory			Sample	Description Ty	pe Stack Emission
			Date - Sa	impling	13/04/2023
			Date - Re	sceipt of Sample	15/04/2023
IS 11255 (Part 1):1985, (Part			Date - St	art of Analysis	15/04/2023
					19/04/2023
		-05 dated	Sampling	Equipment ID	AEC/EQ/1611
		260/ CR/22	0500081	0 Date 13.05	5.2022
	DG-2 T1 A Po	werhouse			
	DG Set 625 K	VA			
	M S				
und level	22.7 m				
	0.15 m				
	Round				
	Diesel				
	24 L/n			1	
	Result			Unit	Method
up: Atmosp	heric Pollution	1			
	106			°C	(5 )(255 (Part 3) 2008
	9.07			m/s	(\$1755 (Part 3) 7008
	443			Nm <sup>3</sup> /h	IS 11255 (Part 1) 2008
	14	15	0	mg/Nm³	15 H255 (Part H3885
	5.71	Not spe	cified	mg/Nm <sup>3</sup>	IS 11253-(Part 2):1885
	0.06	Not spe	cified	Kg/d	65 9255 (Part 2) 595
)	19.7	Not spe	cified	mg/Nm <sup>3</sup>	IS IIZSS (Part 1) ISB5
	Report No.  Mumbai Ir Chhatrapat First Floor, Mumbai Laboratory PM. 1 rio. t 502: 30 ml NO2: 25 ml IS 11255 (I 2): 1985, (F W.O.NO.S7/ Date-29.10 MEEPL/122 31.12.2023 Ir 1.0/CAC/U  up: Atmosp	Report No. SA/04/23/55	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminai 18, Santacruz (E), Mumbai - 400099, Maharashtra. Laboratory PM. 1 no. thimible SO2: 30 ml x 1 no. plastic bottle NO2: 25 ml x 1 no. plastic bottle IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 2):2005 W.O.No.5790316635 Date-29 10:2022 MEEPL/1222/AEC/SMK/RM-05 dated 31:12:2023 In 1.0/CAC/UAN No.0800111260/ CR/22  DG -2 T1 A Powerhouse DG Set 625 KVA M.S. Ind level 22.7 m D.15 m Round Diesel 24 L/h Result Limits a MPCB co up: Atmospheric Pollution  106 9.07 443 14 15 5.71 Not spe 0.06 Not spe	Report No. SA/04/23/5525   Report D	Report No. SA/04/23/5525   Report Date

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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.

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





AEC F REP 1-E Page Lof I





sales@ashwamedh.net +91-253-2392225

# STACK EMISSION MONITORING REPORT

Sample ID: 5A/04/23/552	6 Report No	SA/04/23/55	26	Report Di	ane	19/04/2023	
Name and Address of Customer	Chhatrapati First Floor, T	Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai = 400099, Maharashtra.					
Sampling done by	Laboratory	Laboratory			Description / Typ	pe Stack Emission	
			Date - Sa	mpling	13/04/2023		
Sample Quantity Packing		x 1 no, plastic t x 1 no, plastic		Date - Re	ceipt of Sample	15/04/2023	
Sampling Procedure		IS:11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005			art of Analysis	15/04/2023	
Order Reference	W.O.No.570 Date-29,10			Date -Co of Analys		19/04/2023	
Calibration Certificate No.	MEEPL/122 31.12.2023	2/AEC/SMK/RM	-05 dated	Sampling	Equipment ID	AEC/EQ/1611	
Consent Number & Date Form	at 1.0/CAC/UA	N No 00001112	260/ CR/220	5000810	Date 13.05	2022	
Stack Details							
~Stack Identity		DG MLCP Build	ding				
~Stack attached to		DG Set 380 K	VA				
~Material of construction	in	M.S					
~Stack height above gr	ound level	3 m					
~Stack diameter		0.10 m					
~Stack shape at top		Round					
~Type of Fuel		Diesel					
~Fuel Consumption		20 L/h	1 1 1				
Paramete	r	Result	MPCB co		Unit	Method	
Chemical Testing; Gr	oup: Atmospl	heric Pollution	1				
Flue Gas Temperature		115	14		"C	IS 1/255 (Part 2) 2008	
Flue Gas Velocity		8.05			m/s	IS R255 (Fart 3) 2008	
Flue Gas Flow Rate		170			Nm³/h	(\$ 0755 (Part 3):2008	
Particulate Matter (PM)	Particulate Matter (PM) 12 1		150	0	mg/Nm <sup>3</sup>	IS 11255 (Part I) 1585	
Sulphur Dioxide (502)		8.57	Not spe	cified	mg/Nm <sup>3</sup>	15 11755 (Part 2) (SE5	
Sulphur Dioxide (SO <sub>2</sub> )		0.03	Not spe	cified	Kg/d	15 11755 (Part 7) 1985	
						75 9755 (Part 7) 1985	

the Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



## Note:

- 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.

Disclaimer:

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





AEC FREP 1-E Page 1 of 1





### STACK EMISSION MONITORING REPORT

	Birnell Elitabateit Holla			
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 Internation 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	Date - Sampling	20/07/2023	
	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	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

CONTRACTOR OF STREET	0.00000000	- Constant					
Parameter	Result	Limits as per MPCB Consent	Unit	Method			
Chemical Testing; Group: Atmos	pheric Pollution	7001411400710777777		VIII. LANCE OF BALL SCHOOL			
Flue Gas Temperature	140	18	°C	IS 1255 (Part 3) 2008			
Flue Gas Velocity	12.5		m/s	IS 1/255 (Part 3):2008			
Flue Gas Flow Rate	1561	88	Nm³/h	IS 1/255 (Part 3):200H			
Particulate Matter (PM)	27	150	mg/Nm³	IS 1/255 (Part 1):1985			
Sulphur Dioxide (SO <sub>2</sub> )	8.4	Not specified	mg/Nm³	IS-1/255 (Part 2)-1985			
Sulphur Dioxide (SO <sub>2</sub> )	0.3	Not specified	kg/d	18 #255 (Part 2):1985			
Oxides of Nitrogen (NO <sub>2</sub> )	22.8	Not specified	mg/Nm³	18 1/255 (Part 7) 2005			
	200						

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

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



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

Disclaimer

Information is supplied by the customer (~) and can affect the ivalidity of results.





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





## STACK EMISSION MONITORING REPORT

	STACK EMISSION MON	ITORING 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 Internati 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble	Date - Sampling	20/07/2023
1.03	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):198 (Part 3):2008, (Part 7):2005	5, 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
<sup>™</sup> Type of Fuel	Diesel
~ Fuel Consumption	13 L/h

	1990 SHETT					
Parameter	Result	Limits as per MPCB Consent	Unit	Method		
Chemical Testing; Group: Atmosp	heric Pollution			ST 100 (4) (0.00 - 0.00		
Flue Gas Temperature	115	3.	9C	IS 1(255 (Part 3) 2008		
Flue Gas Velocity	9.30	3:	m/s	/S 1055 (Part 3) 2008		
Flue Gas Flow Rate	434		Nm3/h	IS 10255 (Part 3)-2008		
Particulate Matter (PM)	20	150	mg/Nm³	IS 10255 (Part 1) 1985		
Sulphur Dioxide (SO <sub>2</sub> )	11.2	Not specified	mg/Nm³	IS 10255 (Part 2):1985		
Sulphur Dioxide (SO <sub>2</sub> )	0.12	Not specified	kg/d	IS 11255 (Part 7):1985		
Oxides of Nitrogen (NO2)	17.5	Not specified	mg/Nm³	IS 10255 (Pert 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

Ninad Soundankar

Technical Manager (Chemical)

Reviewed & Authorised by



- 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.
- 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.

Disclaimer

Information is supplied by the customer  $\langle n \rangle$  and can affect the validity of results.





Page 1 of 1





### STACK EMISSION MONITORING REPORT

Sample ID : 5A/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 Internationa 1st Floor, Terminal 1-8, Santacruz(E), Mumbai-400099,Maharashtra	Airport,		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission	
Sample Quantity / Packing	PM: 1 x 1 no, thimble SO <sub>2</sub> : 30 ml x 1 no, plastic bottle	Date - Sampling	20/07/2023	
	NOz: 25 ml x 1 no. plastic bottle	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: Atmosp	heric Pollution	NI .	AS.				
Flue Gas Temperature	125		eC.	IS 1255 (Part 3) 2008			
Flue Gas Velocity	10.4	E	m/s	IS 1/255 (Part 3):2009			
Flue Gas Flow Rate	856	183	Nm³/h	IS 1/255 (Part 3):2008			
Particulate Matter (PM)	25	150	mg/Nm³	IS 10755 (Part 1):1985			
Sulphur Dioxide (SO <sub>2</sub> )	7	Not specified	mg/Nm <sup>3</sup>	IS II255 (Part 2) I985			
Sulphur Dioxide (SO <sub>2</sub> )	0.14	Not specified	kg/d	IS 11255 (Part 2) 1985			
Oxides of Nitrogen (NO <sub>2</sub> )	21	Not specified	mg/Nm³	IS 9255 (Part 7):2005			
Campillar Environment ID: AEC/EO/ICI							

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





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

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





AEC/F/REP/1-E Page 1 of 1





### STACK EMISSION MONITORING REPORT

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 Internatioi 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	nal Airport;	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
	PM: 1 x 1 no, thimble	Date - Sampling	20/07/2023
	SO <sub>2</sub> : 30 ml x 1 no, plastic bottle NO <sub>2</sub> : 25 ml x 1 no, plastic bottle	Date - Receipt of Sample	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 H	Inter Power House-12			
" Stack attached to	DG Set 604 K	VA			
~ Material of construction	M.S				
~ Stack height above ground level	10 m	10 m			
~ Stack diameter	0.20 m	0.20 m			
~ Stack shape at top	Round	Round			
~ Type of Fuel	Diesel				
~ Fuel Consumption	22 L/h				
Bernweter	Docult	Limits as per	Unit	Method	

Result	Limits as per MPCB Consent	Unit	Method
eric Pollution	silwone-serviceonoros		
129		°C	1S 1(255 (Part 3) 2008
13	T 5	m/s	IS 1/255 (Part 3) 2008
1050		Nm³/h	15 1/255 (Part 3) 2008
26	150	mg/Nm³	(\$ 10755 (Part 1) 1985
9.8	Not specified	mg/Nm³	15 11255 (Part 2) 1985
	Not specified	kg/d	15 11255 (Part 2)-1985
29.8	Not specified	mg/Nm <sup>3</sup>	IS 11255 (Part 7):2955
	129 13 1050 26 9.8 0.25	### MPCB Consent #### POBLIST   #### 129	### MPC8 Consent    129

Sampling Equipment ID: AEC/EQ/1611

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

Consent Number 8 Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05.2022

Ninad Soundankar

Technical Manager (Chemical)

Reviewed & Authorised by





- 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.

Information is supplied by the customer ( $\sim$ ) and can affect the  $\nu$ alidity of results:





Page 1 of 1





### STACK EMISSION MONITORING REPORT

Sample ID : 5A/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 Internationalist Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble	Date - Sampling	20/07/2023
	SO <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):198 (Part 3):2008, (Part 7):2005	5, Date - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023
			1

Stack Details					
~ Stack Identity	Intec Power H	ouse-13			
~ Stack attached to	DG Set 625 K	VA			
~ Material of construction	M.S				
~ Stack height above ground level	10 m				
Stack diameter	0.20 m	0.20 m			
~ Stack shape at top	Round				
~ Type of Fuel	Diesel				
~ Fuel Consumption	24 L/h				
Parameter	Result	Limits as per	Unit	Method	

Result	Limits as per	Unit	Method	
	MPCB Consent			
eric Pollution	THEO SALE ISSUED TO			
142	70	oC.	(\$ )(255 (Part 3):2008	
11.9	7)	m/s	IS H2SS (Part 3) 2008	
941	- 50	Nm3/h	IS 9255 (Part 3):2008	
23	150	mg/Nm <sup>3</sup>	15 9255 (Part I) ISBS	
11.2	Not specified	mg/Nm <sup>3</sup>	18 1/255 (Part 2) (985	
0.25	Not specified	kg/d	18 1055 (Part 2):585	
19.3	Not specified	mg/Nm³	IS 1(25)\$ (Part 7):2005	
	941 23 11.2 0.25	MPCB Consent eric Pollution  142  11.9  941  23  11.2  Not specified  0.25  Not specified	MPCB Consent	

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

Ninad Soundankar

Technical Manager (Chemical)







- 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.
- 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.

Information is supplied by the customer (+) and can affect the validity of results.





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





### 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 Ltc Chhatrapati Shivaji Maharaj Internat 1st Floor, Terminal 1-8, Santacruz(E Mumbai-400099, Maharashtra	ional Airport,	Dual Piles States
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
	NOz: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	21/07/2023
Sampling Procedure	1S 11255 (Part 1):1985, (Part 2):198 (Part 3):2008, (Part 7):2005	85, 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
	The state of the s

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosph	eric Pollution			
Flue Gas Temperature	134	50	9C	(\$1)255 (Part 3):2008
Flue Gas Velocity	9.57	70	m/s	IS 11255 (Part 3):2808
Flue Gas Flow Rate	1718	To	Nm3/h	IS 11755 (Part II) 2008
Particulate Matter (PM)	24	150	mg/Nm³	(\$10255 (Part 1) 1985
Sulphur Dioxide (SO <sub>2</sub> )	8.4	Not specified	mg/Nm <sup>3</sup>	IS 1055 (Part 2):1985
Sulphur Dioxide (SO <sub>2</sub> )	0.35	Not specified	kg/d	15 1055 (Part 2):1985
Oxides of Nitrogen (NO2)	24.6	Not specified	mg/Nm³	IS 1/255 (Part 7) 2085

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

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by





### Note:

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

Disclaimer

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





AEC/F/REP/1-E Page 1 of 1





### STACK EMISSION MONITORING REPORT

	STACK EPIESSEON FIGH	7. Nalognica - Simbonia - 1	
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 Internatio Ist 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 <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	20/07/2023
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	21/07/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985 (Part 3):2008, (Part 7):2005	i, Dute - Start of Analysis	21/07/2023
Order Reference	SO. No. 5700330185	Date - Completion of Analysis	25/07/2023

Intake Point Cargo-23
DG Set 437.5 KVA
M.S
10 m
0.20 m
Round
Diesel
24 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosph	eric Pollution			10
Flue Gas Temperature	143		°C	18 1/255 (Part 3):2008
Flue Gas Velocity	10.7		m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	847		Nm3/h	IS 9255 (Part 3):2008
Particulate Matter (PM)	30	150	mg/Nm³	IS 1255 (Part 1):1985
Sulphur Dioxide (SO <sub>2</sub> )	14	Not specified	mg/Nm³	18 1/255 (Part 2) (985
Sulphur Dioxide (SO <sub>2</sub> )	0.28	Not specified	kg/d	IS 9255 (Part 2) (985
Oxides of Nitrogen (NO2)	31.7	Not specified	mg/Nm³	18 8255 (Part 7) 2005

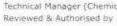
Sampling Equipment ID: AEC/EQ/1611

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

Ninad Soundankar

Technical Manager (Chemical)







- 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.

Disclaimer

Information is supplied by the customer (+-) and can affect the validity of results.





AEC/F/REP/1-E Page 1 of 1





## TEST REPORT

	ILSI KEFOKI		
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 A 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	urport,	
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
Che	mical Testing; Group: Pollution	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	7.3		IS 3025 (Part III) /583
2.	Total Suspended Solids	92	mg/L	12 2025 (Part IT) (984
3,	Biochemical Oxygen Demand (3 Days, 27°C)	186	mg/L	15 3025 (Part 44) (593)
4.	Chemical Oxygen Demand	540	mg/L	APHA 23nd Ed. 5220-B, 5 (B.2017)
5.	Ammonical Nitrogen (as NH3-N)	24.7	mg/L	APHA 23r4 E4 A500 NH3 B S E 4 H4 A HE 201
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
6.	Faecal Coliforms	220	MPN Index /100m)	APHA 22** Ed 9221-E 9-17 2017
Unha	: Sample ID E/04/23/5075 bears tv	o Test Reports -	E/04/23/5075 and E/04/2	7/5075N





Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

- End of Report-

- 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.





AEC FREP 1-A Page no Lof I



## TEST REPORT

	ILDI KEI OKI		
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 A 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Nirport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	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

Sr. No.	Parameter	Result	Unit	Method
Chemica	al Testing; Group: Pollut	ion & Environment	10.	
1. Tot	al Nitrogen (as N)	28.6	mg/L	APHA-23-6 E6 4505 N 8 4-108

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





-End of Report ----

- Note:

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

  2. This report is not to be reproduced except in full, without written approval of the laboratory.

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

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



AEC/FREP I-A Page no I of I





# TEST REPORT

	TEST REPORT		
Sample II) 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 A 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	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		13/04/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Che	emical Testing; Group: Poll	ution & Enviro	nment		
Phy	sical & Chemical Paramete	irs			
1.	pH	7.6	5.5-9.0	-	(\$ 2025 (Part II) 1981/
2.	Total Suspended Solids	15	20	mg/L	45 2025 (Part 17) (984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	3	10	mg/L	IS 3075 (Part 44) 993
4.	Chemical Oxygen Demand	11	50	mg/L	4PHA 73rd Ed. 5270-E. 5-IR 2017
S.	Ammonical Nitrogen (as NH3-N)	1.5	5	mg/L	APRA, 23-4 Ed. 4500 NH2, F, 4-119-200
Bio	logical Testing; Group: Pol	lution & Enviro	nment		

MPN Index Less than 100 APRA 73" EK 8231 E. S. 77.2017 Faecal Coliforms 34 Note: Sample ID E/04/23/5076 bears two Test Reports - E/04/23/5076 and E/04/23/5076N

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



Ninad Soundankar



Technical Manager (Chemical) Reviewed & Authorised by

- 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





AEC F WEP 1-4 Page no. Lof I



# TEST DEPORT

	IESI KEPUKI		
Sample III: 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 A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	urport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Dutlet	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

mg/L	APHA 22rd Ed 4500 N B 4108
	mg/L E/04/23/5

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



End of Report----

- 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



AEC FREP 1-A Page mi Lof F





## TEST REPORT

	TEST REPORT		
Sample II): 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 Shiva)i Maharaj International A 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	irport,	
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 E 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
(Inder Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution I	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.7	_	15 3325 (Part III) 1985
2,	Total Suspended Solids	94	mg/L	(5:3025 (Part 17) (984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	168	mg/L	IS 3925 (Part 44) 1993
4.	Chemical Oxygen Demand	520	mg/L	APHA 73/rd Ext 5220-8 S-18 20/7
5.	Ammonical Nitrogen (as NH3-N)	25.8	mg/L	APHA 73rd Ed 4505 NR3 8 8 C 4 0A 4 76 221

acteriological Parameters		
6. Faecal Coliforms	240	MPN Index /100ml #PNA 22" 66 522-6. 8-77-290







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





AEC FREP I A Page no Loft



## TEST REPORT

Report No. E/04/23/5077N	Report Date	17/04/2023
Mumbai International Airport Ltd. Chhatrapab Shivaji Maharaj International A 1º Floor, Terminal 1B, Santacruz (E) Mumbai 400099, Maharashtra.	urport,	
Laboratory	Sample Description / Type	Untreated Sewage Effluent
Terminal 2 STP Inlet	Date -Sampling	12/04/2023
2 t x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	13/04/2023
8S 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		13/04/2023
Work Order No. 5700316635 Date-29.10.2022	Dute - Completion of Analysis	17/04/2023
	Mumbai International Airport Ltd. Chhatrapath Shivaji Maharaj International Air Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra. Laboratory  Terminal 2 STP Inlet. 2 L x 1 np. plastic can 250 ml x 1 np. sterile glass bottle 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  Work Order No. 5700316635	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.  Laboratory  Somple Description / Type  Terminal 2 STP Inlet:  Disc - Sampling  2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle  IS 3025 (Part 1):1987, Amds 1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006  Work Order No. 5700316635  Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Pollut	ion & Environment		
Land	tal Nitrogen (as N)	30	mg/L	APRA 23rd Ed. 4500 N 8 4-508





- 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



AEC FREP 7-4 Page on Loft





## TEST REPORT

IEST REPORT		
Report No : E/04/23/5078	Report Date	17/04/2023
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1° Floor, Terminal 1B, Santatruz (E) Mumbai-400099, Maharashtra.	urport,	
Laboratory	Sample Description / Type	Treated Sewage Effluent
Terminal 2 STP RO Outlet	Date -Sampling	12/04/2023
2 L x 1 no. plastic can 250 ml x 1 no. stenie glass bottle	Date - Receipt of Sample	13/04/2023
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		13/04/2023
Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	17/04/2023
	Repert No. E/04/23/5078  Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International All' Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. Laboratory  Terminal 2 STP RO Outlet.  2 L x 1 no. plastic can 250 ml x 1 no. stenie glass bottle IS 3025 (Part 1):1987, Amds.1 & APMA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006  Work Order No. 5700316635	Report No. E/04/23/5078 Report Date  Mumbal International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1° Floor, Terminal 1B, Santauruz (E) Mumbal-400099, Maharashtra.  Laboratory Sample Description   Type  Terminal 2 STP RO Outlet: Date - Sampling  2 L x 1 no. plastic can 250 ml x 1 no. stenie glass bottle  IS 3025 (Part 1):1987, Amds.1 & APMA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & Date - Start of Analysis 9060 B, 9-39 & ISO 19458:2006  Work Order No. 5700316635 Date - Completion of

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Che	emical Testing; Group: I	ollution & Env	ironment	-	
Phy	rsical & Chemical Paran	neters	,,		
1.	pH	7.48	5.5-9.0		10 3025 (Part IV 1983
2.	Total Suspended Solids	17	20	mg/L	IS 3075 (Part I7) ISB4
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, 73rd Ed. 4508 WHZ, F. 4-118 201
Bio	logical Testing; Group:	Pollution & Env	vironment		
Bac	teriological Parameter	1			
б.	Faecal Coliforms	32	Less than 100	MPN Index /100ml	APHA 23" Ed 9221-E 9-77-2017
Note	:: Sample ID E/04/23/50)	8 bears two Test	Reports - E/04/23/5	078 and E/04/23/507	78N

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



Ninad Soundankar



Technical Manager (Chemical) Reviewed & Authorised by

End of Report

- 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





AEC F REP 1-4 Page no. 1 of 1



## TEST REPORT

	IESI KEPUKI		
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 A 1º Floor, Terminal I.B., Santacruz (E) Mumbai-400099, Maharashtra.	erport,	
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

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemi	cal Testing; Group: Po	llution & Enviro	nment		
3 To	tal Nitrogen (as N)	4.6	10	ma/L	APHA, 23rd Ed. 4500 W 8 4 IDB





End of Report ....

- 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







## 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 A 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Mirport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Lucation	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	Dute - 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. \$700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023

	11411		And the second s	
Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	8		IS 3025 (Part II) ISB3
2.	Total Suspended Solids	82	mg/L	IS 3025 (Part I7) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	155	mg/L	IS 3075 (Part 44) 1993
4.	Chemical Oxygen Demand	480	mg/L	APH4 23rd Ed. 5220-8. 5-18 2017
5)	Ammonical Nitrogen (as NH3-N)	20.2	mg/L	APHA 23rd Ed 4500 RH3 H S C 4 H4 4 H5 201
Biol	ogical Testing; Group: Pollution	& Environment		
Bac	teriological Parameters			
б.	Faecal Coliforms	240	MPN Index /100ml	APRA 23" Ed 3221-E, 9-77-2017

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



Ninad Soundankar Technical Manager (Chen Reviewed & Authorised by

End of Report-

- 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





AEC F REP I A Page no 1 of 1



## TECT DEDODT

	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 A 1" Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra,	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	19/05/2023
Sample Quantity/Packing	2 L x I no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
Sumpling 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	Dute - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Polluti	on & Environment		
	and the second of the second	act of mineral solutions		





End of Report-

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



Page no Loft





## TEST REPORT

	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 A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date -Sampling	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	15 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006	Date + Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date-29,10.2022	Date - Completion of Analysis	24/05/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chi	emical Testing; Group: Poll	ution & Enviro	nment		
Phy	ysical & Chemical Paramete	ers			
1.	pH	7.5	5,5-9.0		10 3825 (Part II) 1983
2,	Total Suspended Solids	14	20	mg/L	IS 3925 (Part 17) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	4	10	mg/L	US 3025 (Part 44) 1593
4.	Chemical Oxygen Demand	14	50	mg/L	4PHA 23rd Ed 5220 B 5-18-2017
5.	Ammonical Nitrogen (as NH3-N)	1.5	5	mg/L	APMA 23/4 Ed. 4500 NH3 F. 4-99-700
Bio	logical Testing; Group: Poll	lution & Enviro	nment		
Bac	teriological Parameters		0.000		
6.	Faecal Coliforms	32	Less than 100	MPN Index	APRA 2011 E4 9721-E 9-77-7017

Engineers & C Valory Services 0

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

APRA 2311 Ed 9721-E 9-77-2017

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

End of Report---

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

Note: Sample ID E/05/23/5117 bears two Test Reports - E/05/23/5117 and E/05/23/5117N

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





AEC F REP 1-A Page no. Lof L



# 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 A 1" Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	sirport,	
Sumpling 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

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemi	cal Testing; Group: Po	llution & Enviro	nment		
	tal Nitrogen (as N)	5.5	10	mg/L	APNA, 73 rd Ed. 4500 % B 4:108





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



Page no. 1 of I





# TECT DEDORT

	TEST REPORT		
Sample (f) 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 A 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	ng Location Terminal 2 STP Inlet		19/05/2023
umple Chamity/Packing 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle		Date - Receipt of Sample	20/05/2023
IS 3025 (Part 1):1987, Amds.1 & 23rd Ed., 1060 B, 1-40, 9060 A, 9-9060 B, 9-39 & ISO 19458:2006		Date - Start of Analysis	20/05/2023
Order Reference	Work Order No. 5700316635 Date - Completion of Analysis		24/05/2023

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution I	& Environment		
Phy	sical & Chemical Parameters			
1.	pH	6.8	-	15 3025 (Part II) (983
2.	Total Suspended Solids	96	mg/L	15 3025 (Part 17) ISB4
3.	Biochemical Oxygen Demand (3 Days, 27°C)	175	mg/L	IS 2025 (Part 44) 1993
4.	Chemical Oxygen Demand	540	mg/L	APHA 23rd Ed. \$220-8: 5-9-2017
5.	Ammonical Nitrogen (as NH3-N)	28	mg/L	APHA 73rd E6 4500 NH3 B S C 4 N4-4-16 201
Biol	ogical Testing; Group: Pollution	& Environment		
Bact	teriological Parameters			
6.	Faecal Coliforms	210	MPN Index /100ml	APHA 22° Ed 9728-E 9-77-2007

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

- The result listed refers only to the tested sample(s) and applicable parameter(s).
   This report is not to be reproduced except in full, without written approval of the laboratory.
   In case sampling is not done by laboratory, the results apply to the sample as received.

Note: Sample ID E/05/23/5118 bears two Test Reports - E/05/23/5118 and E/05/23/5118N

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





AEC FREP 2-A Page no. Lof. I



## TEST REPORT

Report No. E/05/23/5118N	Report Date	24/05/2023
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1 <sup>st</sup> Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Labioratory	Sample Description / Type	Untreated Sewage Effluent
Terminal 2 STP Inlet	Date-Sampling	19/05/2023
2 L x 1 no. plastic can 250 ml x I no. sterile glass bottle	Date - Receipt of Sample	20/05/2023
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		20/0/2023
Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International All Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra, Laboratory  Terminal 2 STP Inlet  2 L x 1 no. plastic can 250 mi x 1 no. sterile glass bottle  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  Work Order No. 5700316635	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International Airport, 1" Floor, Terminai 1B, Santacruz (E) Mumbai-400099, Maharashtra.  Laboratory  Sample Description / Type  Terminal 2 STP Inlet  Date - Sampling  2 L × 1 no. plastic can 250 mi x 1 no. sterile glass bottle  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  Work Order No. 5700316635  Date - Completion of

Sr. No.	Parameter	Result	Unit	Method
Chemic	al Testing; Group: Pollut	on & Environment		
1. Tot	al Nitrogen (as N)	33.8	mg/L	APHA 23rd Ed. 4500 N. B. 4-108

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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



Page no Triff





# TEST REPORT

	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 A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
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 15 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed., 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & 150 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

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Ch	emical Testing; Group:	Pollution & Envi	ronment		
Ph	ysical & Chemical Paran	meters			
1.	pH	7.5	5.5-9.0		(8.2025-(Part-10.6983)
2.	Total Suspended Solids	13	20	mg/L	IS 3025 (Part IV) 1984
3.	Biochemical Oxygen Demand (3 Days, 27°C)	3	10	mg/L	IS 3025 (Part 44) 1983
4,	Chemical Oxygen Demand	12	50	mg/L	APHA 72nd Ed. 5220-8. S-18 2017
5.	Ammonical Nitrogen (as NH3-N)	2.6	5	mg/L	AFHA: 23-d Ed: 4500 WHX; F:4-19:20
Bio	logical Testing; Group:	Pollution & Env	ironment		

6. Faecal Coliforms MPN Index /100ml Less than 100 Note: Sample ID E/05/23/5119 bears two Test Reports ~ E/05/23/5119 and E/05/23/5119N







APHA 23" Ed 929-E, 9-77 2877

- 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





AEC FREP IN Page no 1 of 1



## TEST REPORT

Sample ID: E/05/23/5119	Report No.: E/05/23/5119N	Discour Date	24105/2002
samble in: Elno(50/50/511a	Reboit No. E/02/X3/2113M	Report Date	24/05/2023
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International A 1º Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra.	Airport,	
Sampling done by	Laboratory	Sample Description / Type	Treated Sewage Effluent
Sampling Location	ding Location Terminal 2 STP RO Outlet		19/05/2023
Sample Quantity Packing 2 t 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		20/05/2023
Order Reference	Work Order No. 5700316635 Date-29.10.2022	Date - Completion of Analysis	24/05/2023

Sr. No.	Parameter	Result	Limit as per MPCB Consent	Unit	Method
Chemi	cal Testing; Group: Po	llution & Enviro	nment		
1. To	tal Nitrogen (as N)	4.5	10	ma/L	4PHA-20rd Ed. 4580 N & 4-108

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- 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.



AEC FREP I-A Page in Laft





### 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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	inal Airport,		
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 t. x t 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	

r.No.	Parameter	Result	Unit	Method		
Chem	nical Testing; Group: Pollution & Enviro	nment	11			
Physi	ical & Chemical Parameters					
1	pH (at 25°C)	7.05		IS 2025 (Part II) ISB3		
2	Total Suspended Solids	84	mg/L	IS 3075 (Part (7):(S84		
3	Biochemical Oxygen Demand (3 days, 27°C)	173	mg/L	1\$ 3025 (Fart 44) (993		
4	Chemical Oxygen Demand	520	mg/L	AFRA 73rd Ed. 5270-B. 5-IB		
5	Ammonical Nitrogen (as NH <sub>3</sub> -N)	22.4	mg/L	APHA, 23rd Ed., 4500 NHS, E 6 C. 4 H4, 4-06		
Biolo	gical Testing; Group: Pollution & Enviro	onment				
Bacte	riological Parameters					
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 73rd Ed., 9221-1, 9-77, 2017		





Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### 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.





AEC/F/REP/1-A

Page 1 of 1



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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	snal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	09/06/2023
Sample Quantity / Packing	uantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile glass bottle		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

r.No.	Parameter	Result	Unit	Method
Chemical Tes	ting; Group: Pollution & Envi	ronment		
1 Total A	litrogen (as N)	26.3	mg/L	APHA, 23rd Ed., 4500 N.B4-108 2017





- 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.







### TEST REPORT

Samp	ole ID : E/06/23/5044	Report 2	No. E/06/23/50	144	Report Dat	e		15/06/2023	
Customer Chhai		Chhatra 1st Floo	pati Shivaji Ma	al Airport Ltd sharaj Internati 3, Santacruz(E) rashtra	onal Airport,				
Samp	oling done by	Laborate	aboratory		Sample Description / Type			Treated Sewage	
Sampling Location Terms		Termina	I 1 STP RO Out	tlet	Date - Samp	pling		09/06/2023	
			× 1 no, plastic can ml x 1 no. Sterile glass bottle		Date - Rece	ipt of Sample		10/06/2023	
Sampling Procedure		15 3025 APHA 23 A, 9-36,	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  Date - Completion of Analysis			10/06/2023	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					sis	s 14/06/2023	
r.No.			Result	Result Limits as pe				Method	
Chen	nical Testing; Group: Po	llution & E	invironment						
	mout resumy, aroup. Fo								
a file to the same and as	ical & Chemical Parame	ters							
a file to the same and as		ters	7.4	5.5	-9.0		(5)	3825 (Part II) /982	
Phys	ical & Chemical Parame	ters	7.4 13		-9.0 xceed 20	mg/L		3825 (Pain III /882 3025 (Pain III /884	
Phys	pH (at 25°C)			Not to e			153		
Phys 1 2	pH (at 25°C) Total Suspended Solids Blochemical Oxygen Dem	nand	13	Not to e	xceed 20	mg/L	(8.0	3025 (Part 17):084	
Phys 1 2 3	pH (at 25°C) Total Suspended Solids Blochemical Oxygen Dem (3 days, 27°C)	and d	13 5	Not to e	xceed 20 exceed 10	mg/L mg/L	IS S IS S APH	3025 (Part I7):084 3025 (Part 44):1983	
Phys 1 2 3 4 5	pH (at 25°C) Total Suspended Solids Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman	nand d NHa-N)	13 5 18 1.8	Not to e	xceed 20 exceed 10 xceed 50	mg/L mg/L mg/L	IS S IS S APH	8025 (Part 17):4984 8025 (Part 44):9983 44: 73rd Ed. 5220-8, 5-48 44: 73rd Ed. 4500 MAS 8 B E. (	
Phys 1 2 3 4 5	pH (at 25°C) Total Suspended Solids Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman Ammonical Nitrogen (as I	nand d NHa-N)	13 5 18 1.8	Not to e	xceed 20 exceed 10 xceed 50	mg/L mg/L mg/L	IS S IS S APH	8025 (Part 17):4984 8025 (Part 44):9983 44: 73rd Ed. 5220-8, 5-48 44: 73rd Ed. 4500 MAS 8 B E. (	

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### Note

- 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.





AEC/F/REP/1-A Page 1 of 1



#### TEST REPORT

ir.No. P	arameter	Result	Limits as p		Unit	Method
Order Reference		Work Order No. 57003 29:10.2022			letion of Analysis	14/06/2023
Sampling Procedure	e	IS 3025 (Part 1):1987 APHA 23rd Ed., 1060 A, 9-36, & 9060 B, 9- 19458:2006	8, 1-40, 9060	Date - Start o	f Analysis	10/06/2023
Sample Quantity / F	acking	2 L x I no. plastic can 250 ml x I no. Sterile glass bottle		Date - Receipt of Sample		10/06/2023
Sampling Location		Terminal 1 STP RO Outlet		Date - Sampling		09/06/2023
Sampling done by		Laboratory		Sample Description / Type		Treated Sewage Effluent
Name and address of Customer	rf	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra		onal Airport,		
Sample ID : E/06/2	3/3044	Report No. E/06/23/5044N		Report Date		15/06/2023

1 Total Nitrogen (as N) 4.8 Not to exceed 10 mg/L APHA 73rc1d, 4500 NBA 108 7077

Consent Number & Date: Format I.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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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







### TEST REPORT

	1.00 / 1.00 / 1.00 / 1.00		
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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	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	19/06/2023
Order Reference	Work Order No. 5700316635 dated 29:10:2022	Date - Completion of Analysis	14/06/2023

r.No.	Parameter	Result	Unit	Method		
Chem	nical Testing; Group: Pollution & Enviro	nment	1	11 11 11 11 11 11 11 11 11 11 11 11 11		
Phys	cal & Chemical Parameters					
1	pH (at 25°C)	6.5	393	15/3025 (Part II) (SB3		
2	Total Suspended Solids	99	mg/L	IS 3025 (Fart (7) (984		
3	Biochemical Oxygen Demand (3 days, 27°C)	200	mg/L	1S 3025 (Fert 44):1953		
4	Chemical Oxygen Demand	600	mg/L	APHA, 23rd Ed. 5220-B, 5-tB		
5	Ammonical Nitrogen (as NH <sub>3</sub> -N)	30.2	mg/L	APHA, 23rd Ed. 4500 NH3, 6 6 C, 4 -84, 4-86		
Biolo	gical Testing; Group: Pollution & Enviro	onment				
Bacte	riological Parameters					
6	Faecal Coliforms	240	MPN Index /100 ml	APHA 23rd Ed. 9221-E 9-77 2017		







### 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.





AEC/F/REP/1-A Page 1 of 1



# 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 Internatio 1st Fioor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	nal Airport,	
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

ir.No.	Parameter 1	Result	Unit	Method
Chemical Tes	ting; Group: Pollution & Envir	onment	0	(Supplemental Control
Total N	itrogen (as N)	38	mg/L	APHA, 23rd Ed., A500 N.EA-108-2017

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- 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.







### TEST REPORT

Samp	le ID ; E/06/23/5046	Report N	lo. E/06/23/50	46	Report Dat	e.	15/06/2023
Name Custo	and address of mer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra		onal Airport,			
Samp	ling done by	Laborato	ry		Sample Description / Type		Treated Sewage Effluent
Samp	impling Location Termin		2 STP RO Out	fet	Date - Sam	pling	09/06/2023
Samp	le Quantity / Packing	2 L x 1 no, plastic can 250 ml x 1 no. Sterile glass bottle		glass bottle	Date - Receipt of Sample		10/06/2023
Samp	ling Procedure	IS 3025 (Part 1):1987, Amds.1 & APMA 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	0.5 C-0.7 THE RESERVE OF THE PROPERTY OF THE P		c Order No. 5700316635 dated 0.2022		Date - Completion of Analysis		14/06/2023
Sr.No.	Parameter		Result	Limits as p	Contract of the Contract of th	Unit	Method
-	nical Testing; Group: Pol	Maria Contraction	nvironment				
Physi	ical & Chemical Paramet	ters					
1	pH (at 25°C)		The state of the s		-9.0	-	IS 3025 (Part #1.1983
	Proceedings of the Control of the Co			The second secon			
2	Total Suspended Solids		11	Not to e	xceed 20	mg/L	IS 3825 (Part 17) (\$64
	Total Suspended Solids Biochemical Oxygen Dem (3 days, 27°C)	and	11	0.5962.526.52	xceed 20 xceed 10	mg/L mg/L	IS 3875 (Part 17) (854 IS 3875 (Part 44) (983
2	Biochemical Oxygen Dem		- 55	Not to e	CONTRACTOR I		The San Control of the Control of th
3	Biochemical Oxygen Dem (3 days, 27°C)	d	4	Not to e	xceed 10	mg/L	IS 3025 (Part 44)/983
3 4 5	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Demand	d NH3-N)	4 14 2.8	Not to e	xceed 10	mg/L mg/L	IS 3825 (Plint 44)/983 APHA 73rd Ed. 5220-8, 5-48 APHA 73rd Ed. 4500 NH3 8 8 C 4
2 3 4 5	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Demani Ammonical Nitrogen (as f	d NH3-N)	4 14 2.8	Not to e	xceed 10	mg/L mg/L	IS 3825 (Plint 44)/983 APHA 73rd Ed. 5220-8, 5-48 APHA 73rd Ed. 4500 NH3 8 8 C 4





Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



### 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.

Note: Sample ID E/06/23/5046 bears two Test Reports - E/06/23/5046 and E/06/23/5046N

- 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.





AEC/F/REP/1-A Page 1 of 1



# TEST REPORT

Sample ID : E/06/23/5046	Report No. E/06/23/S046N	Report Date	15/06/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-B, Santacruz(E) Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	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 1	Testing; Group: Pollutio	n & Environment	41		437
1 Total	Nitrogen (as N)	6.2	Not to exceed 10	mg/L	MPHA, 23HJ Ed., 4500 N.B4-698 201

Note: Sample ID E/06/23/5046 bears two Test Reports - E/06/23/5046 and E/06/23/5046N

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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







### TEST REPORT

	TEST NEL OIL		
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 Internatio 1st Fioor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-1 STP Inlet	Date -Sampling	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

r.No.	Parameter	Result	Unit	Method
	ical Testing; Group: Pollution & Enviro	nment	W = _ = _ =	
	cal & Chemical Parameters			4
3	pH (at 25°C)	7.8		(\$ 3025 (Part II) IBB3
2	Total Suspended Solids	96	mg/L	IS 3025 (Part 17) 1984
3	Biochemical Oxygen Demand (3 days, 27°C)	157	mg/L	IS 3075 (Part 44):993
4:	Chemical Oxygen Demand	500	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH3-N)	25.8	mg/L	APHA, 23rd Ed. 4500 MH3, 8 6 C. 4-HA, 4-105
	gical Testing; Group: Pollution & Envir	onment		
	eriological Parameters			
6	Faecal Coliforms	280	MPN Index /100 ml	APHA, 73rd Ed., 922t-E, 9-77; 2007

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

- 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.





Page 1 of I



	Report No. E/07/23/5115N	Report Date	25/07/2023
Name and address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1-8, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-1 STP Inlet	Date -Sampling	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
Chemi	cal Testing; Group: Pollution & Envi	ronment		V.
+	Total Nitrogen (as N)	28.6	mg/L	APHA, 23rd Ed. 4500 N.B4-108 2017





- 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.







#### TEST DEDORT

			1 60	ST REPORT			
Sample	ID: E/07/23/5116	Report N	o. E/07/23/51	16	Report Date		25/07/2023
Name a Custom	tomer Chhatrapati 1st Floor, Te		Internationa pati Shivaji Mar , Terminal 1-B, 400099,Mahar	naraj Internatio , Santacruz(E)	onal Airport,		
Sampli	ng done by	Laborato	ry		Sample Des	cription / Type	Treated Sewage Effluent
Sampling Location Termin		Termina	ninal-1 STP RO Outlet		Date - Samp	ding	19/07/2023
Sample	le Quantity / Packing 2 L x 1 no. plastic c			bottle	Date - Receipt of Sample		20/07/2023
Sampli	ng Procedure	15 3025 (Part 1):19 APHA 23rd Ed. 2017 9060 A, 9-36, & 906 19458:2006		060 B, 1-40,	Date - Start of Analysis		20/07/2023
Order Reference SO. No		50. No.	o. 5700330185		Date - Completion of Analysis		24/07/2023
ir.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chem	ical Testing; Group: Po	llution & E	invironment				
Physic	cal & Chemical Parame	ters					
1	pH (at 25°C)		7.5	5.5 to 9.0		30	IS 3025 (Part II) IS83
2	Total Suspended Solids		12	Not to r	exceed 20	mg/L	IS 3025 (Part 17) IS84
3	Biochemical Oxygen Den (3 days, 27°C)	nand	3	Not to	exceed 10	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demar	nd	14	Not to	t to exceed 50 mg/L		APHA, 23rd Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as	Part Street Company of the land of the land	1.6	- 1,000,000	exceed 5	mg/L	APRA 23rd Ed., 4500 NR3, F. 4-10
Biolog	gical Testing; Group: Po	ollution &	Environment				
	riological Parameters						
Bacte			32	Less t	han 100	MPN Index	APHA 23rd Ed. 9221-E 9-77, 2017

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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







### TEST REPORT

Sample ID : E/07/23/5116	Report No. E/07/23/5116	N	Report Date		25/07/2023
Name and address of Customer	Mumbai International Chhatrapati Shivaji Maha Ist Floor, Terminal 1-8, S Mumbai-400099, Maharas	raj Internatio Santacruz(E),	nal Airport,		
Sampling done by	Laboratory		Sample Desc	cription / Type	Treated Sewage Effluent
Sampling Location	Terminal-1 STP RO Outlet	t	Date - Sampling		19/07/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bo	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		pt of Sample	20/07/2023
Sampling Procedure	APHA 23rd Ed. 2017,106	1S 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		of Analysis	20/07/2023
Order Reference	SO, No. 5700330185		Date - Comp	letion of Analysis	24/07/2023
Sr.No. Parameter	Result	Limits as p	er MPCB	Unit	Method

r.No.	Parameter	Result	Limits as per MPC8 Consent	Unit	Method
Chemical Te	sting; Group: Pollutio	n & Environment			
1 Total 1	litrogen (as N)	4.2	Not to exceed 10	mg/L	APHA: 23rd Ed: 4500 N.84-108-2017

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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







### **TEST REPORT**

Sample ID : €/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 Internatio 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	15 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

r.No.	Parameter	Result	Unit	Method
	ical Testing; Group: Pollution & Enviro	nment		
	cal & Chemical Parameters			170000
1	pH (at 25°C)	6.8	€:	IS 3075 (Part #) IS83
2	Total Suspended Solids	108	mg/L	IS 3025 (Part 17):1584
3	Biochemical Oxygen Demand (3 days, 27°C)	213	mg/L	IS 3075 (Part 44):993
4	Chemical Oxygen Demand	640	mg/L	APHA, 23rd Ed.: 5228-B, 5-18
5	Ammonical Nitrogen (as NH3-N)	32.5	mg/L	APHA, 23nd Ed. 4500 NH3, B S C. 4-114, 4-16
	gical Testing; Group: Pollution & Envir	onment		
The state of the s	eriological Parameters			
6	Faecal Coliforms	350	MPN Index /100 ml	APHA, 73rd Ed. 9221-E. 9-77. 2017

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



## Note:

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





AEC/F/REP/1-A Page 1 of 1



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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	anal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal-2 STP Inlet	Date -Sampling	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	15 3025 (Part 1):1987, Amds 1 & APHA 23rd Ed. 2017,1960 B, 1-40, 9060 A, 9-36, 8 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

r.No.	Parameter	Result	Unit	Method
Chemical Test	ing; Group: Pollution & Envi	ronment	100	
I Total Ni	trogen (as N)	35.5	mg/L	APHA, 23rd Ed., 4500 N 84 108 2017





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







### TEST REPORT

Sampl	e ID : E/07/23/5118	Report N	io. E/07/23/51	18	Report Date		25/07/2023
Name Custoi	and address of mer	Chhatra 1st Floo	i Internationa pati Shivaji Mal r, Terminal 1-B -400099,Mahar	haraj Internatio , Santacruz(E)	onal Airport,		
Sampl	ing done by	1997940000		Sample Description / Type		Treated Sewage Effluent	
Sampl	ing Location	Terminal-2 STP RO Outlet		Date - Samp	ding	19/07/2023	
Sampl	le Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Rece	pt of Sample	20/07/2023	
Sampl	ling Procedure	APHA 2 9060 A,	S 3025 (Part 1):1987, Amds.1 & PHA 23rd Ed. 2017,1060 B, 1-40, 060 A, 9-36, & 9060 B, 9-39 & ISO 9458:2006		Date - Start of Analysis		20/07/2023
Order	Reference	SO. No.	5700330185		Date - Com	oletion of Analysi	5 24/07/2023
ir.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chem	nical Testing; Group: Po	llution & I	Environment			-	
Phys	ical & Chemical Paramet	ters					
1	pH (at 25°C)		7.7	5.5 to 9.0		9	IS 3025 (Pert II):1983
2	Total Suspended Solids		13	Not to e	exceed 20	mg/L	IS 3825 (Part 17) IS84
	Biochemical Oxygen Dem	and	4	Not to e	exceed 10	mg/L	IS 3025 (Part 44) (993
3	(3 days, 27°C)						
3		d	16	Not to e	exceed 50	mg/L	APHA, 23rd Ed., 5220-B, 5-18
- 3	(3 days, 27°C)	Hitcher Co. Co.	16 2.4		exceed 50 exceed 5	mg/L mg/L	APHA, 73rd Ed., 5228-B, 5-18 APHA, 23rd Ed., 4580 NH3, F, 4-49
4	(3 days, 27°C) Chemical Oxygen Deman	NH3-N)	2.4				
4 5 Biolo	(3 days, 27°C) Chemical Oxygen Deman Ammonical Nitrogen (as	NH3-N)	2.4				

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



### Note:

- 1. The result listed refer only to the tested sample(s) and applicable parameter(s).
- This report is not to be regroduced 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.





AEC/F/REP/1-A Page 1 of 1



### TEST REPORT

r.No.	Parameter	Result	Limits as p		Unit	Method
Order Ref	erence	SO. No. 5700330185		Date - Comp	letion of Analysis	24/07/2023
Sampling	Procedure	15 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
Sample Q	uantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of Sample		20/07/2023
Sampling	Location	Terminal-2 STP RO Outlet		Date - Sampling		19/07/2023
Sampling	done by	Laboratory		Sample Description / Type		Treated Sewage Effluent
Name and Customer	l address of	Mumbai Internation Chhatrapati Shivaji Ma Ist Floor, Terminal 1-8 Mumbai-400099,Maha	haraj Internatio 3, Santacruz(E)	onal Airport,		
consider to	):E/07/23/5118	Report No. E/07/23/5118N		Report Date		25/07/2023

 Chemical Testing; Group: Pollution & Environment

 1
 Total Nitrogen (as N)
 4.9
 Not to exceed 10
 mg/L
 APNA 23rd Ed. 4500 N.84-108.2007

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

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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

AEC/F/REP/1-A





### 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 Internatio 1st Floor, Terminal 1-8, Santacruz(E), Mumbai-400099, Maharashtra	nal Airport,	
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, 8 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

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		90.
	pH (at 25°C)	8.2		IS 3075 (Part 10 ISB3
I	Total Suspended Solids	80	mg/L	1\$ 3025 (Pert (7):1984
3		160	mg/L	15:3025 (Part 44):1953
3	Biochemical Oxygen Demand	> 5.55.5	110803	25-24-76-2
770	(3 days, 27°C) Chemical Oxygen Demand	480	mg/L	APHA, 73rd Ed., 5720-6, 5-08
4		19	mg/L	APHA, 23rd Ed., 4500 NH3, B/S/C, 4-1W, 4-16
5	Ammonical Nitrogen (as NH3-N)	75000	Triggra.	
Biolo	gical Testing; Group: Pollution & Envir	onment		7
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/2205 Note: Sample ID E/08/23/5133 bears two Test Reports - E/08/23/5133 and E/08/23/5133N

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

- 1. The result listed refer unly 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.
- There are no additions to, deviations or exclusions from the method.





AEC/F/REP/1-A



# 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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	nal Airport,	
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	1S 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

r.No.	Parameter	Result	Unit	Method
	esting; Group: Pollution & Envi	ronment		
	il Nitrogen (as N) mber & Date: Format 1.0/CAC/UAN	23.3	mg/L	APHA: 23rd Ed. 4500 N.84-108:2017

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by

- 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.







# TEST REPORT

				ST REPORT			
Sampl	e ID : E/08/23/5134	Report N	lo. E/08/23/513	14	Report Date		05/09/2023
Name Custor	and address of ner	Chhatra 1st Floo	i Internationa pati Shivaji Mah r, Terminal 1-B, -400099,Mahari	araj Internatio Santacruz(E)	onal Airport,		
Sampl	ing done by	Laborato	ney		Sample Description / Type		Treated Sewage Effluent
Sampl	ing Location	Termina	I STP RO Outl	et	Date - Sampling		30/08/2023
Sampl	e Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of Sample		31/08/2023	
Sampl	ling Procedure	APHA 2: 9060 A,	The state of the s		Date - Start of Analysis		31/08/2023
Order	Reference		der No. 570033	30185 dated	Date - Comp	oletion of Analysi	s 04/09/2023
ir.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method
Chen	nical Testing; Group: Po	llution &	Environment				
1331000	ical & Chemical Parame						
1	pH (at 25°C)		7.45	5.5	5-9.0	- 2	15 3075 (Part II) ISB3
2	Total Suspended Solids		10	Not to	exceed 20	mg/L	IS 3075 (Part I7) IS84
3	Biochemical Oxygen Dem (3 days, 27°C)	nand	4	Not to	exceed 10	mg/L	IS 3025 (Part 44):093
4	Chemical Oxygen Deman	sd.	15	Not to	exceed 50	mg/L	APHA, 22rd Ed. 5220-B. 5-18
	Ammonical Nitrogen (as		1.72	Not to	exceed 5	mg/L	APHA, 73rd Ed., 4500 MHZ, F. 4. 95
5	A POST CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE PAR	- Hastine C.	Environment				
	gical Testing; Group: Po	ollution &	. Wall and Control of the Control				
Biolo	ogical Testing; Group: Progical Parameters	onution &			-	VIII TO THE PARTY OF THE PARTY	APHA, 23rd Ed., 9271-E, 9-77, 2001

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

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





AEC/F/REP/1-A Page 1 of 1



### TEST REPORT

Sample ID : E/08/23/5134	Report	No. E/08/23/513	34N	Report Date		05/09/2023
Name and address of Customer	Chhatr 1st Flo	ai Internationa apati Shivaji Mah or, Terminal 1-B, n-400099,Mahar	naraj Internatio Santacruz(E),	onal Airport,		
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 L x 1 no, plastic can 250 ml x 1 no, Sterile bottle		Date - Receipt of Sample		31/08/2023
Sampling Procedure	APHA : 9060 A	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		Date - Start of Analysis		31/08/2023
Order Reference	Work (	Order No. 57003. 2023	30185 dated	Date - Comp	letion of Analys	
Sr.No. Parameter	1	Result	Limits as Con	per MPCB sent	Unit	Method
Chemical Testing; Group: P	ollution 8	Environment	1			
Physical & Chemical Param	A period to the second					
		6.2	Not to a	exceed 10	mg/L	APHA, 73rd Ed.; 4500 N.B4-188 201

- H3 Colom Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



- 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.







### TEST REPORT

Sample ID: £/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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	snal Airport,	
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
	ical Testing; Group: Pollution & Enviro	nment	111	
1	pH (at 25°C)	6.79	-	IS 3025 (Part II):1983
2	Total Suspended Solids	92	mg/L	IS 3025 (Part 17):984
3	Biochemical Oxygen Demand (3 days, 27°C)	171	mg/L	IS 3075 (Part 441/993
4	Chemical Oxygen Demand	500	mg/L	APHA, 23rd Ed. 5220-B, 5-IB
5	Ammonical Nitrogen (as NH3-N)	29.1	mg/L	APHA, 23rd Sd., 4500 NH3, 8 B C, 4 -H4, 4-96
Biolog	gical Testing; Group: Pollution & Envir	onment		47
6	Faecal Coliforms	240	MPN Index /100 mi	APHA, 23rd Ed. 9221-E, 9-77-2007

Consent Number & Date: Format 1.0/CAC/UAN NO. 0000111260/CR/2205000810 Date 13.05 Note: Sample ID E/08/23/5135 bears two Test Reports - E/08/23/5135 and E/08/23/5135N

> Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### 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.







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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	30/08/2023
Sample Quantity / Packing	2 L x I 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

r.No.	Parameter	Result	Unit	Method
Chemical Tes	ting; Group: Pollution & Envi	ironment	R	
1 Total N	itrogen (as N)	37.3	mg/L	APHA, 2'3rd Ed., 4500 N.84-108-2017





- 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.



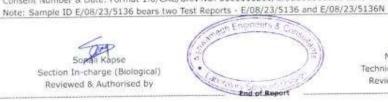




### **TEST REPORT**

Sampl	e ID : E/08/23/5136	Report !	No. E/08/23/513	36	Report Date		05/09/2023
Name Custon	and address of mer	Chhatra 1st Floo	ni Internationa Ipati Shivaji Mah Ir, Terminal 1-8, I-400099,Mahar	naraj Internatio Santacruz(E)	onal Airport,		
Sampl	ling done by	Laborat	ory		Sample Description / Type		Treated Sewage Effluent
Sampl	ling Location	Termina	al 2 STP RO Out	et	Date - Sampling		30/08/2023
Sampl	le Quantity / Packing	2 L x 1 no. plastic can !		Date - Receipt of Sample		31/08/2023	
Sampl	ling Procedute	APHA 2	5 (Part 1):1987, 3rd Ed. 2017,10 , 9-36, & 9060 I 2006	60 B, 1-40,	Date - Start	of Analysis	31/08/2023
Order	Reference	Work 0	rder No. 57003:	30185 dated	Date - Com	pletion of Analysi	s 04/09/2023
Sr.No.	Parameter		Result	Limits as Con	per MPC8 sent	Unit	Method
Chen	nical Testing; Group: Pol	llution &	Environment				
	ical & Chemical Paramet						
-	pH (at 25°C)	T	7.6	5.5	5-9.0	2	IS 3025 (Part II):(983
1			5.01 51757	40.000	exceed 20	The second	IS 3025 (Part 17) (984
2	Total Suspended Solids		14	Not to e	exceed 50	mg/L	
	Biochemical Oxygen Dem	and	14 6	100000000000000000000000000000000000000	exceed 10	mg/L mg/L	13 3025 (Part 44) 1993
2	1000 march and the control of the co		32500	Not to e		100000	13 3025 (Part 44) 1993 APHA, 73re Ed., 5220-B, 5-18
3	Biochemical Oxygen Dem (3 days, 27°C)	d	6	Not to e	exceed 10	mg/L	13 3025 (Part 44) 1993
2 3 4 5	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman	d NH3-N)	6 22 2	Not to e	exceed 10 exceed 50	mg/L mg/L	13 3025 (Part 44) 1993 APHA, 73re Ed., 5220-B, 5-18
2 3 4 5 Biolo	Biochemical Oxygen Dem (3 days, 27°C) Chemical Oxygen Deman Ammonical Nitrogen (as	d NH3-N)	6 22 2	Not to e	exceed 10 exceed 50	mg/L mg/L	13 3025 (Part 44) 1993 APHA, 73re Ed., 5220-B, 5-18

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

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







### TEST REPORT

Chhatrapati	ernationa Shivaji Ma	36N al Airport Ltd. haraj Internatio			05/09/2023
Chhatrapati 1st Floor, Te	Shivaji Ma				
	099,Mahar	i, Santacruz(E), rashtra			
Laboratory		Sample Description / Type		Treated Sewage Effluent	
Terminal 2 STP RO Outlet		Date - Sampling		30/08/2023	
\$100 P. O. P. S.	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of Sample		31/08/2023
APHA 23rd E 9060 A, 9-3r	d. 2017,1 5, & 9060	060 B, 1-40,	Date - Start o	of Analysis	31/08/2023
Work Order 22.08.2023	No. 57003	30185 dated	Date - Compl	letion of Analys	ús 04/09/2023
	Result	7780337550000	PERSONAL PROPERTY.	Unit	Method
lution & Envi	ronment				
ers					
	4.9	Not to e	exceed 10	mg/L	APHA, 23rd Ed., 4500 N.84-108-2017
	2 L x 1 no. p 250 ml x 1 n 1S 3025 (Par APHA 23rd E 9060 A, 9-36 19458:2006 Work Order I 22:08:2023	2 L x 1 no. plastic can 250 ml x 1 no. Sterile 1S 3025 (Part 1):1987. APHA 23rd Ed. 2017,1 9060 A, 9-36, & 9060 19458:2006 Work Order No. 57003 22:08:2023 Result lution & Environment ters	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle 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 Work Order No. 5700330185 dated 22:08.2023 Result Limits as Con- lution & Environment ters 4.9 Not to e at 1.0/CAC/UAN NO. 0000111260/CR/2	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle  IS 3025 (Part 1): 1987, Amds; 1 & Date - Start of APHA 23rd Ed. 2017, 1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458: 2006  Work Order No. 5700330185 dated Date - Complex 22,08, 2023  Result Limits as per MPCB Consent  Lution & Environment ters  4.9 Not to exceed 10	2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle 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 Work Order No. 5700330185 dated 22.08.2023  Result Limits as per MPCB Consent  Limits as per MPCB Limits as per MPCB Consent  Limits as per MPCB Limits as per MPCB Consent  Limits as per MPCB Limits as per MPCB Limits as per MPCB Consent  Limits as per MPCB Limits as p

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





- 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.







# 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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	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

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment		
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	7.9	945	IS 3025 (Part II) ISB3
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)(953
4	Chemical Oxygen Demand	440	mg/L	APHA, 23ed Ed., 5220-8, 5-18
5	Ammonical Nitrogen (as NH3-N)	21.3	mg/L	APHA, 23rd Ed., 4500 NH3, B & C, 4-104, 4-116
Biolo	gical Testing; Group: Pollution & Enviro	onment		3011
Biolo	gical Parameters			
6	Faecal Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77, 2017

Section In-charge (Biological)
Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### 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.
- 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.





AEC/F/REP/1-A Page 1 of 1



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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date -Sampling	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	15 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

ir.No.	Parameter	Result	Unit	Method
Chemical Tes	ting; Group: Pollution & Env	ronment		3141
1 Total I	vitrogen (as N)	21.5	mg/L	APHA, 23rd Ed. 4500 N.84 108 2017





- 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.







#### TEST REPORT

22.08.2023 Result	T-1	per MPCB	Unit	Method
Work Order No. 5700	Work Order No. 5700330185 dated		letion of Analysis	20/09/2023
APHA 23rd Ed. 2017	Date - Start of Analysis		16/09/2023	
	Date - Receip	16/09/2023		
Terminal 1 STP RO 0	utlet	Date - Sampling		15/09/2023
Laboratory	Sample Desc	Treated Sewage Effluent		
Chhatrapati Shivaji N 1st Floor, Terminal 1	faharaj Internati -B, Santacruz(E)	onal Airport,		
Report No. E/09/23/	5064	Report Date	26	21/09/2023
	Mumbai Internation Chatrapati Shivaji N 1st Floor, Terminal 1 Mumbai-400099, Mar Laboratory  Terminal 1 STP RO O 2 L × 1 no. plastic ca 250 ml × 1 no. Steril 1S 3025 (Part 1):198 APHA 23rd Ed. 2017 9060 A, 9-36, 8 906 19458:2006  Work Order No. 5700	Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1-8, Santacruz(E) Mumbai-400099, Maharashtra Laboratory  Terminal 1 STP RO Outlet  2 L x 1 no: plastic can 250 ml x 1 no: Sterile bottle  1s 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  Work-Order No: 5700330185 dated 22:08:2023	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1-8, Santacruz(E), Mumbai-400099, Maharashtra  Laboralory Sample Description Date - Sample Description Date - Sample Description Date - Sample Date -	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra  Laboratory  Sample Description / Type  Terminal 1 STP RO Outlet  Date - Sampling  Date - Receipt of Sample  1S 3025 (Part 1): 1987, Amds. 1 & APHA 23rd Ed. 2017, 1060 B, 1-40, 9060 A, 9-36, 8 9060 B, 9-39 & ISO 19458: 2006  Work Order No. 5700330185 dated 22.08.2023  Maharashtra  Date - Start of Analysis

		22.08.2023			
Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chen	l mical Testing; Group: Pollut	ion & Environment			
Phys	ical & Chemical Parameter	5			
1:	pH (at 25°C)	7.6	5.5 to 9.0		IS 3025 (Part 10:1983
2	Total Suspended Solids	8	Not to exceed 20	mg/L	G 3025 (Part 17)+984
3	Biochemical Oxygen Demand (3 days, 27°C)	4	Not to exceed 10	mg/L	IS 3075 (Part 44)-1993
4	Chemical Oxygen Demand	16	Not to exceed 50	mg/L	APHA, 23-6 Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH)	i-N) 1.88	Not to exceed 5	mg/L	APHA 73rd Ed. 4500 NH3 F 4 15
Biolo	gical Testing; Group: Pollu	tion & Environment		All .	
Biolo	gical Parameters				
6	Faecal Coliforms	32	Less than 100	MPN Index /100 ml	APHA 73rd Ed. 927t-E. 9-77-2017

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



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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### 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.





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



Sample ID : E/09/23/5064	Repor	t No. E/09/23/50	64N	Report Date		21/09/2023
Name and address of Customer	Chhat 1st Fk	pai Internationa rapati Shivaji Ma por, Terminal 1-B ai-400099,Maha	haraj Internatio , Santacruz(E)	onal Airport,		
Sampling done by	Laboratory		Sample Description / Type		Treated Sewage Effluent	
Sampling Location	Terminal 1 STP RO Outlet		Date - Sampling		15/09/2023	
200 CONTRACTOR   10 CONTRACTOR		1 no. plastic can il x 1 no. Sterile bottle		Date - Receipt of Sample		16/09/2023
Sampling Procedure	APHA 9060	IS 3025 (Part 1):1987, Amds.1 & APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		Date - Start of Analysis		16/09/2023
Order Reference		Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		s 20/09/2023
Sr.No. Paramete	er	Result	Limits as Con	per MPCB sent	Unit	Method
Chemical Testing; Group:	Pollution 8	Environment				
	(as N) 4.4 Not to		Of heavy	mg/L	APHA 73rd Ed: 4500 N.BA 108 700	





- 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.







### **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 Internatii 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099, Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	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

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Enviro	nment	- W	
Physi	cal & Chemical Parameters			
1	pH (at 25°C)	6.86		IS 3025 (Part II):1983
2	Total Suspended Solids	98	mg/L	IS 3075 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	186	mg/L	1\$ 3075 (Part 44):19\$3
4.	Chemical Oxygen Demand	540	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Ammonical Nitrogen (as NH <sub>2</sub> -N)	28	mg/L	APHA, 73rd Ed., 4500 NH3, 8 8 C. 4 -19, 4-16
Biolog	gical Testing; Group: Pollution & Envir	onment	1//	*
Biolog	gical Parameters	(4	00-	
6	Faecal Coliforms	280	MPN Index /100 ml	APHA, 23nd Ed., 9221-E, 9-77, 2017

Section In-charge (Biological) Reviewed & Authorised by



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by

### Note:

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





AEC/F/REP/1-A Page 1 of 1



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 Internatio 1st Floor, Terminal 1-B, Santacruz(E), Mumbai-400099,Maharashtra	onal Airport,	
Sampling done by	Laboratory	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date -Sampling	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

Parameter	Result	Unit	Method
Group: Pollution & Envi	ronment		
en (as N)	32.4	mg/L	APHA, 23rd Ed. 4500 N 84-108 200
	Group: Pollution & Envi en (as N)	Group: Pollution & Environment en (as N) 32.4	Group: Pollution & Environment





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

  This report is not to be reproduced except in full, without written approval of the laboratory.

  The result issue to be reproduced except in full, without written approval of the laboratory.

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







# **TEST REPORT**

Sample ID: E/09/23/5066 Report		Report 1	No. E/09/23/50	66	Report Date		21/09/2023	
Customer Chhatra 1st Floo		i Internation pati Shivaji Ma ir, Terminal 1-8 i-400099,Mahar	haraj Internatio , Santacruz(E)	onal Airport,				
Sampling	ampling done by Laboratory		itory		Sample Description / Type		Treated Sewage Effluent	
Sampling Location Termin		Termina	I 2 STP RO Out	tlet	Date - Samp	oling	15/09/2023	
Sample Q	nple Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		bottle	Date - Rece	ipt of Sample	16/09/2023		
Sampling	APHA 3		025 (Part 1):1987, Amds.1 & A 23rd Ed. 2017,1060 B, 1-40, 0 A, 9-36, 8 9060 B, 9-39 & ISO 58:2006		Date - Start of Analysis		16/09/2023	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Work Or 22,08.2	Order No. \$700330185 dated 8.2023		Date - Completion of Analysi		is 20/09/2023	
r.No.	Parameter		Result	Limits as Con	per MPCB sent	Unit	Method	
Chemica	l Testing; Group: Po	Illution & I	Environment	-				
Physical	& Chemical Parame	ters						
1 pH	(at 25°C)		8.0	5.5 to 9.0		3.	1\$ 3825 (Part II):983	
2 Tot	tal Suspended Solids		16	Not to e	xceed 20	mg/L	IS 3825 (Part 17):1964	
100000	chemical Oxygen Den days, 27°C)	nand	5	Not to e	exceed 10	mg/L	IS 3025 (Part 44):1993	
4 Ch	emical Oxygen Deman	nd	21	Not to e	exceed 50	mg/L	APHA, 23rd Ed., 5220-B, 5-18	
5 Am	Ammonical Nitrogen (as NH3-N) 2.6 Not to		exceed 5 mg/L		APHA, 23rd Ed., 4500 NH3, F, 4-10			
Biologica	al Testing; Group: Po	ollution &	Environment	2				
were a realized	al Parameters			w -				
Riologica	ecal Coliforms		47	Less H	han 100	MPN Index	APHA, 23rd Ed., 9221-E, 9-77, 2017	

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



### 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.





AEC/F/REP/1-A Page 1 of 1



# **TEST REPORT**

Sample ID: E/09/23/5066	ample ID : E/09/23/5066 Report No. E/09/23/5066N		166N	Report Date		21/09/2023
Name and address of Customer	Chhat 1st Fl	bai Internation rapati Shivaji Ma por, Terminal 1-8 vai-400099,Maha	haraj Internatio 3, Santacruz(E)	onal Airport,		
Sampling done by	Labor	Laboratory		Sample Description / Type		Treated Sewage Effluent
Sampling Location	Termi	nal 2 STP RO Out	Outlet Date - S		ling	15/09/2023
Sample Quantity / Packing	Packing 2 L x 1 no. plastic can 250 ml x 1 no. Sterile bottle		Date - Receipt of Sample		16/09/2023	
Sampling Procedure	APHA 23rd Ed. 2017,1060 B, 1-40, 9060 A, 9-36, & 9060 B, 9-39 & ISO 19458:2006		of Analysis	16/09/2023		
Order Reference	255000	Work Order No. 5700330185 dated 22.08.2023		Date - Completion of Analysis		20/09/2023
r.No. Paramet	er	Result	Limits as p		Unit	Method
Chemical Testing; Group	: Pollution 8	Environment				
		5.8	47.4	xceed 10	mg/L	APHA, 23rd Ed., 4500 N.84-108-201





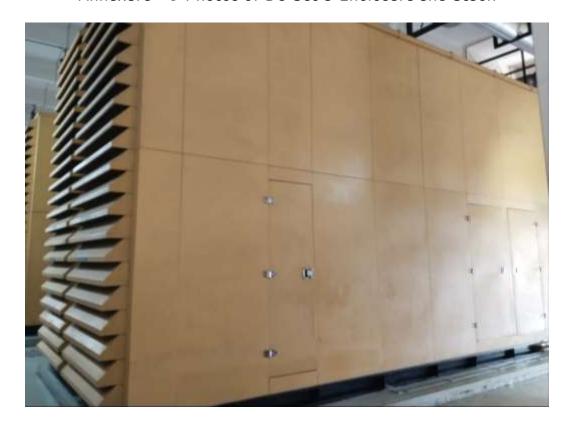
### Note

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





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









## Mumbai International Airport Ltd.

#### AIRSIDE OPERATIONS

#### AIRSIDE SAFETY

#### STANDARD OPERATING PROCEDURE

### FUEL/ FLUID SPILLAGE

#### MIAL/AO-ASM/SOP/03/04

Activity	Name	Signature Pate
Prepared By:	Rajesh Jadhav DGM- Airside Safety	Ryan 200
	Vinayak Sohani Documentation Lead	Mada
Recommended by:	Jayant Dasgupta AVP -Airside Management	J. 200
2000	Prasad Nair MR-IMS	Miles
Approved by	Prabhat Mahapatra EVP - Operations	Alaulay 12/1/21





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

#### TABLE OF CONTENTS

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





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

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

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

#### 1.0 PURPOSE

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

#### 2.0 SCOPE

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

The scope of this procedure applies to the following agencies.

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

#### 3.0 OBJECTIVE

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

#### 4.0 RESPONSIBILITY

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

#### 5.0 DEFINITIONS & ABBREVIATIONS

AGM	Airside Ground Maintenance	
APSU	Airport Security Unit	
ARFF	Aerodrome Rescue and Fire Fighting	
ASM	Airside Safety Management	
ATC	Air Traffic Control	
CISE	Central Industrial Security Force	
GHA	Ground Handling Agency	
3CC	Joint Control Centre	
MPCB	Maharashtra Pollution Control Board	
NOTAM	Notice to Airmen	
PIC	Pilot -in- Command	
SMC	Surface Movement Control.	
SOP	Standard Operating Procedure	





Revision No : 04

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

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

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

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

#### 6.0 PROCEDURE

#### 6.1 Actions by person first noticing the spill

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

#### 6.2 Actions by Aircraft Operator

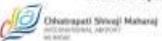
Following actions are to be undertaken by the concerned Airline/fuelling company immediately in case of a fuel/oil spill incident:

- The PIC or the Engineer shall immediately report to ATC on VHF SMC Frequency when the aircraft is on the maneuvering area.
- Stop the engine of the aircraft and shall not start if it is already switched
- 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.





Issue No : 04 Revision No : 04 Doc No: MIAL/AO-ASM/S0P/03/04 Issue Date : 01/04/2011 Revision Date : 11/01/2020

#### 6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

- Apron Cantrol
- 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.

#### 5.6 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.

Peggs S of B



2

adani

tssue No : 04 Revision No : 04 Doc No: MIAL/AO-A5M/SOP/03/04 Issue Date : 01/04/2011 Revision Date : 11/01/2020

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

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

#### 6.7 Airside Ground Maintenance

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

#### 6.8 Ground Handling Agency

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

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

#### 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.





Revision No : 04

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

#### **Contact List**

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

#### 7.0 FORMATS USED

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

8.0 RECORDS GENERATED

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

9.0 REFERENCES

NIL





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

Revision Date : 11/01/2020

#### 10.0 REVISION HISTORY

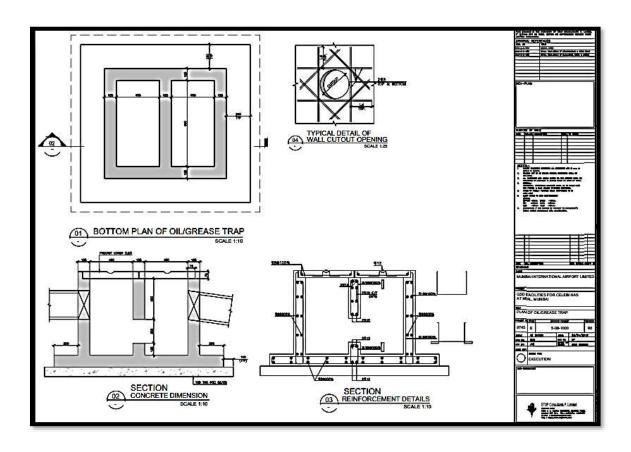
Date	Rev. No.	Page No.	Revision Description	
6/11/2012	01	6	Service charge for clearing spillage is included.	
01/07/2014	02	3	New abbreviations are added, Responsibility changed.	
01/07/2014	02	- 4	Definition of major fuel/oil/fluid spillage is revised	
01/07/2014	02	6	Penalty charge is included under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





Annexure -07 Oil Interceptors.

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



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





## Indian Green Building Council (IGBC)

hereby certifies that

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

(IGBC Registration No: GEB 15 0662)

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

IGBC Green Existing Buildings Rating System

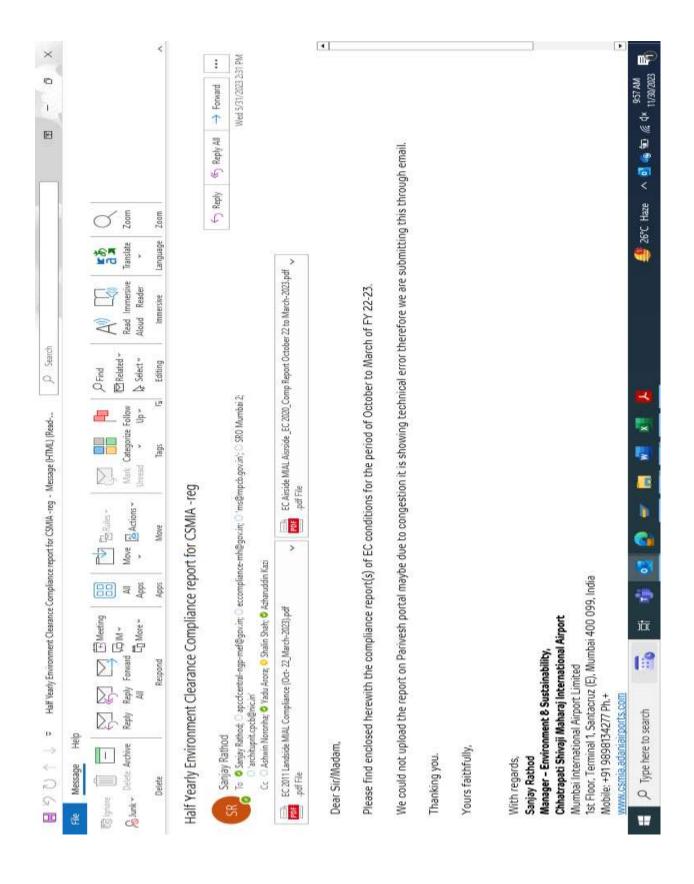
## Platinum

December 2021

(This certification is valid for next 3 years)

Gurmit Singh Arora Chair, IGBC Green EB O&M V Suresh Chairman, IGBC K S Venkatagiri Executive Director, CII-Godrej GBC

Annexure -09 Last EC Submission Letter.	





Ref: MIAL/ENV/23/19

31st May 2023

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

Dear Sir.

Subject: Half yearly Environmental Compliance status report of Environment Clearance received

for Upgradation of Chhatrapati Shivaji Maharaj International Airport by Mumbai

International Airport Limited

Ref: - Environment clearance File no. 10-5/2007-IA-III dated 2<sup>nd</sup> June 2017 8 3<sup>rd</sup> April 2007.

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

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

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

Mr. Ashwin Noronha

Chief Operating Officer (COO)

Encl: Half yearly Environmental Compliance report.

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

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

# 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

MPCB-ENVIRONMENT\_STATEMENT-0000057291

Submitted Date

12-09-2023

PART A

Company Information

Company Name

Mumbai International Airport Ltd

Terminal 1B, 1st floor, Chhatrapati Shivaji Interational

Last Environmental statement submitted online

Airport, Santacruz (E), Mumbai

Plot no

Terminal 1, Santacruz east

Capital Investment (In lakhs)

1113262.00

Pincode

400099

Telephone Number

9898134277

Region

SRO-Mumbai II

Consent Valid Upto

2024-05-31

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000111260

Taluka

Andheri

Scale 1.51

Person Name

Sanjay Rathod

Fax Number

02266850778

Industry Category

2006

Consent Number MPCB-CONSENT-0000111260 2022-05-13

Establishment Year

other

Village

City

Santacruz

Mumbal city

Designation

Industry Type

Consent Issue Date

Date of last environment statement

sanjay.rathod@adani.com

Manager - Environment & Sustainability,

submitted

Sep 29 2022 12:00:00:000AM

Product Information

**Product Name** 

Consent Quantity 0

Actual Quantity

UOM

Nos./Y

By-product Information

By Product Name

Consent Quantity

**Actual Quantity** 

UOM 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 Gener	ation in CMD / MLI	0.				
Particulars	addit in cric ;		Consent Quantity	Actual Q	uantity	UOM
Sewage generation	at CSMIA	6	6615	1571.70		CMD
		sumption (cubic meter of				
process water pe Name of Products	r unit of product)		During the Brew	love Due	ing the current	uo
Name of Products	(Production)		During the Previ		ing the current incial year	00
OTHERS			0	0	611/17/2015/2015	
3) Raw Material C per unit of produc Name of Raw Mat	ct)	sumption of raw material	During the Previous financial Year		g the current cial year	UO CM
976			(ATA)	20701		letter
4) Fuel Consumpt	tion					
Fuel Name		Consent quantity	Actu	of Ourantity	110	100
-NA-		Consent quantity 14760	78.45	ial Quantity 0		OM r/Hr
-NA- Part-C Pollution discharg			78.40	0	Ltr	
-NA- Part-C  Pollution discharg [A] Water	ged to environmen	14760	r as specified in the conts  Percentage of variation from prescribed standards with	consent issued	Ltr	
-NA- Part-C  Pollution discharg [A] Water	ged to environment Quantity of Pollutants discharged (kL/day)	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep	r as specified in the conts Percentage of variation from prescribed standards with reasons	onsent issue	<u>(tr</u>	
-NA- Part-C	ged to environmen Quantity of Pollutants discharged	14760  nt/unit of output (Parameter  Concentration of Pollutar  discharged(Mg/Lit) Excep  PH, Temp, Colour	r as specified in the conts  Percentage of variation from prescribed standards with	onsent issue	d)  rd Reason  Pollutant disci	harge
Part-C  Pollution discharg  [A] Water  Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	14760  nt/unit of output (Parameter  Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration	r as specified in the conts  Percentage of variation from prescribed standards with reasons %variation	consent issued	d) rd Reason	harge d limit
-NA- Part-C Pollution discharg [A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 7.3	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration 7.3	r as specified in the conts  Percentage of variation from prescribed standards with reasons %variation  0	onsent issued Standar 8	d)  rd Reason  Pollutant disci	harge rd limit harge rd limit
Part-C  Pollution discharg [A] Water Pollutants Detail  PH  Suspended Solids	Quantity of Pollutants discharged (kL/day) Quantity 7.3	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration 7.3	r as specified in the conts Percentage of variation from prescribed standards with reasons %variation 0	Standar 8	d)  rd Reason  Pollutant disch within standar  Pollutant disch within standar	harge nd limit harge nd limit harge nd limit
Part-C  Pollution discharg [A] Water Pollutants Detail  PH  Suspended Solids  BOD 3 days (27oC)  COD	Quantity of Pollutants discharged (kL/day) Quantity 7.3 11.92	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration 7.3  14.1  6.2	r as specified in the counts  Percentage of variation from prescribed standards with reasons  %variation  0  0	Standar 8 50	d)  rd Reason  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci	harge rd limit sarge rd limit sarge rd limit
Part-C  Pollution discharg [A] Water  Pollutants Detail  PH  Suspended Solids  BOD 3 days (27oC	Quantity of Pollutants discharged (kL/day) Quantity 7.3 11.92 4.17	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration 7.3  14.1  6.2	r as specified in the conts Percentage of variation from prescribed standards with reasons %variation 0 0 0	Standar 8 50 30 100	d)  rd Reason  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci	harge rd limit sarge rd limit sarge rd limit
Part-C  Pollution discharg [A] Water Pollutants Detail  PH  Suspended Solids  BOD 3 days (27oC  COD	Quantity of Pollutants discharged (kL/day) Quantity 7.3 11.92 4.17 15.42  Quantity of Pollutants discharged	14760  nt/unit of output (Parameter Concentration of Pollutar discharged(Mg/Lit) Excep PH, Temp, Colour  Concentration 7.3  14.1  6.2  21.8  Concentration of Pollu	r as specified in the counts Percentage of variation from prescribed standards with reasons %variation 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Standar 8 50 30 100	d)  rd Reason  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci within standar  Pollutant disci	harge nd limit harge nd limit harge nd limit

Part-F						
0		0		0		MT
3) Quantity Recycled unit Waste Type	or Re-utilize	I A TO PRODUCE	ng Previous Fin	ancial Total Du	ring Current Financial	uo
2) From Pollution Co Non Hazardous Wast STP sludge		Total During Previous Fit 8.98	nancial year	Total During C	urrent Financial year	MT
Waste wood	150		46.363			МТ
Organic / food waste	517		207.71			MT
Wet waste	1397		555.1			MT
Waste cotton	106		o			MT
Other Misc. scrap	147		87.985			M
Broken tins	168		134,66			MI
Waste glass bottles	120		132.21			МТ
Waste Paper	188		419.99	5		MT
SOLID WASTES  1) From Process Non Hazardous Wast Plastic waste	e Type Total	During Previous Financial	year Total E 796.83	Ouring Current F	inancial year	UC MT
Part-E						
0	0	earning Free Tous Financial	0	a. Juning Curren		501
2) From Pollution Co Hazardous Waste Ty		During Previous Financial	vear Tot	al During Currer	nt Financial year	uoi
23.1 Wastes or residue	s (not made wil	th vegetable or animal materia	els) 82.40		5.97	MT
33.1 Empty barrels /cor chemicals /wastes	stainers /liners	contaminated with hazardous	0.4		1.84	МП
5.2 Wastes or residues	who was and have		0		7.7	МТ
5.1 Used or spent oil			11.760		0	MT
HAZARDOUS WASTE: 1) From Process Hazardous Waste Ty			Financi	uring Previous ial year	Total During Current Financial year	UC
Part-D						
matter (mg/Nm3)					within stand limit	tard

Type of Hazardous Waste Generated	Oty of Hazardous Waste	иом	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	Oty of Solid Waste	иом	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	0	0	0	500000	140	0

#### Part-H

CSMIA

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)

NII	0	0
[B] Investment Proposed for next Year		\$2000 A \$1000 FOR THE WHITE BASE S
Detail of measures for Environmental Protection	Environmental Protection Measures NA	Capital Investment (Lacks) 00
NA .	NA	00
Part-I		
Any other particulars for improving the quality of	f the environment.	
Particulars		
Nil- The Form 5 is cumulative all the CTO (CSMIA & MLC figure and submitted	P) both, Para no 4 DG fuel DG Diesel were n	ot appear in the Tab so mentioned
Name & Designation		
Sanjay Rathod Manager Environment & Sustainability		
UAN No:		
MPCB-ENVIRONMENT_STATEMENT-0000057291		
Submitted On:		
12-09-2023		