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 2021 - September 2021



Ref: MIAL/ENV/22/10

29th July 2022

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

Dear Sir,

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

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

With reference to find above, please enclosed herewith the compliance Report of EC conditions for the period from April 21 to September 21.

Thanking you.

Yours faithfully,

For Mumpai International Airport Limited

Head - Environment & Sustainability

Encl: Half yearly Environmental Compliance report.

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

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

SIX MONTHLY COMPLIANCE REPORT

(Period of April to Oct of FY 21 -22)

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

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

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

S.N.	Conditions	Compliance Status		
A) Spe	cific Condition			
(i)	As proposed, this environmental clearance is only for up-gradation of Chhatrapati Shivaji International Airport.	Noted.		
(ii)	The project proponent shall obtain clearance from DGCA and AAI for safety and project facilities.	Complied. Aerodrome license have been obtained from DGCA. License copy is attached as Annexure - 01.		
(iii)	Construction site shall be adequately barricaded before the construction begins.	Complied. All construction sites are barricaded with metallic sheets before initiating construction activities. The same will be followed for remaining activities. Refer Annexure - 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 followed for remaining activities.		
(v)	The soil/construction materials carried by the vehicles shall be covered by impervious sheeting to ensure that the dusty material do not leak from the vehicle	Complied. It is being ensured the vehicles / dumpers carrying soil and construction material are covered with tarpaulin to ensure no dust pollution during transportation. The same will be followed for remaining activities. Annexure – 03 for practices followed		
(vi)	The excavation working area shall be sprayed with water after operation so as to maintain the entire surface wet.	Noted and being complied. At the time of excavation, measures to reduce dust pollution are being taken. The same will be followed for remaining activities		

(::.)	Call and the control of the control	
(vii)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal / vertical). Topsoil shall be separately stored and used in the development of green belt.	Noted for compliance Safety measures are being taken and soil sample shall be collected and analyzed for fertility to determine further usage as per conditions.
(viii)	A detailed drainage plan for rainwater shall be drawn up and implemented.	Complied, detailed drainage plan for rainwater has been implemented Approx. 45000-meter drainage network provided.
(ix)	Groundwater abstraction and rainwater recharge shall be as may be prescribed by the CGWA. A clearance from CGWA shall be obtained in this regard.	No ground water is abstracted for the any activity. Water requirements is met by MCGM water supply and treated water recycling.
(x)	Noise from vehicles and power machinery and equipment onsite shall not exceed the prescribed limit. Equipment should be regularly serviced. Attention shall also be given to muffler maintenance and enclosure of noisy equipment's.	Noted and being complied, vehicles and equipment's are being maintained as per manufacture recommendations. Noise level monitoring in and around airport premises is conducted regularly and are observed within prescribed limits. Refer Annexure -04 for monitoring reports.
(xi)	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7am to 6pm.	Noted for compliance and will be followed during the construction activities
(xii)	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete, bricks, timber, plastic, glass, metals, bitumen etc. shall be reused /recycled or disposed-off as per the Solid Waste Management Rule, 2016 and the Construction and Demolition Waste Rules 2016.	Complied, waste has been segregated, reused, and disposed as per the Solid Waste Management the Construction and Demolition Waste Rules.
(xiii)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulfur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board (SPCB).	Complied DG sets are used for emergency backup purpose only. Enclosures, stack, and low sulfur diesel is being used, near runway DG stack are provided as per aviation safety. Annexure -05 of photos DG sets.

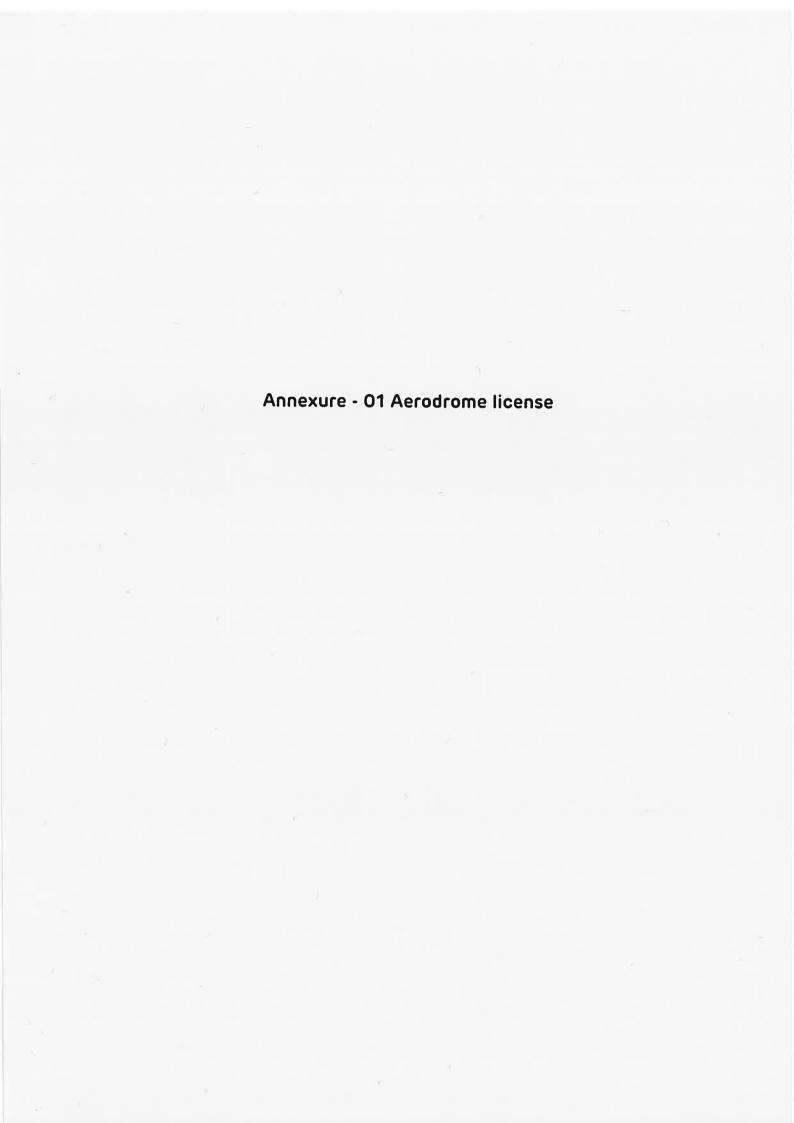
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(xiv)	Aircraft maintenance, sensitivity of the location where activities are undertaken and control of runoff of potential contaminants, chemicals etc. shall be properly implemented and reported.	Contingency plan for spills prevention is in place. Refer Annexure -06 Contingency plan for spills prevention.		
(xv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. Oil interceptors are commissioned to contain spills. Annexure- O7 oil interceptors drawing.		
(xvi)	The runoff from paved structures like runways, taxiways can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Complied. Oil interceptors are commissioned in compliance of condition.		
(xvii)	Storm water drains are to be built for discharging storm water from airfield to avoid flooding/water logging in project area during monsoon season/cloud bursts.	Complied. Stormwaters drain system is built for discharging storm water.		
(xviii)	Rainwater harvesting for roof run-off and surface runoff, as plan submitted should be implemented. Before recharging the surface runoff, pretreatment must be done to remove suspended matter, Oil & grease.	Rainwater recharge pits have been constructed at airside and near terminal buildings to capture roof run offs and use for recharging ground water table. Rainwater pits are provided with coarse sand and stone aggregate filtration.		
(xix)	Total freshwater requirement from MCGM shall not exceed from 8 MLD	Complied. Average 2.2 MLD water sourced from MCGM during the period of April- 21 to September-21.		
(xx)	Wastewater generation shall not exceed from 10 MLD and treated in the STP. Treated sewage shall be recycled / reused for cooling tower makeup, flushing and horticulture.	Wastewater generation is well within the limit average 1.6 MLD sewage generated per day during April to September 21. The treated water is fully recycled in flushing, HVAC and gardening.		
(xxi)	Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. Annexure -05 Acoustic enclosures of DG sets.		

(xxii)	During airport operation period, noise shall be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.	Complied. Ambient air quality and noise levels are well within the limits. Parameters are being monitored by NABL approved third party Laboratory and continuous noise monitoring system. Monitoring reports are given in Annexure-04.
(xxiii)	The solid waste shall be segregated as per the norms of the Municipal Solid waste Management Rules 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site), plastics (from aircraft, terminals & offices), wood, waste oil and solvents (from maintenance and engineering operation), kitchen wastes and vegetable oils (from caterers) shall be carried out.	Complied, waste Management procedure has been implemented. waste segregation and disposal methods are followed as per stipulated regulatory requirements. Waste is collected in bins, segregated, and channelized to MPCB authorized waste handling agency. Waste handler does the segregation and further channelize for recycling and disposal according to rule. The hazardous wastes are collected and stored at designated storage area and disposed-off at MPCB authorized TSDF and recyclers.
(xxiv)	Traffic congestion near the entry and exit points from the roads adjoining the airport shall be avoided. Parking should be fully internalized, and no public space should be utilized.	Noted and complied, Multi-Level Car Parking buildings (MLCPs) have been constructed for vehicle parking with adequate capacity at both the passenger terminals.
(xxv)	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Noted and complied. Energy efficient lighting are considered during the design as well as at the time of replacement lighting more energy efficient fittings are considered. Terminal-2 is awarded with Platinum Rating Facility in existing building project category by CII. Any used CFL/TFL generated to be disposed as e-waste to authorized recyclers. Annexure-08 Certificate of Green Building Platinum Rating.
(xxvi)	An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district.	Complied.
(xxvii)	The concerns of the public hearing panel shall be suitably addressed to, and the recommendations adopted as part of the Environmental Management	Complied, EMP is being implemented. various CSR initiatives in the field of health, education, women empowerment, environment, etc. are being implemented.

	Plan and in the plan for CSR as applicable.	
(xxviii)	A water security plan, to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the CSR activity.	Complied, MIAL provided Rainwate harvesting facility for non-potable used and constructed toilet at a Zilla Parishad school catering to majorle underprivileged students in Shahapu District of Maharashtra.
B) (GENERAL CONDITIONS	
(i)	The project authorities must strictly adhere to the stipulations made by the SPCB, State Government and any other statutory authority	Noted, MPCB has granted Consent to Establish vide letter no BO/CAC cell/UAN No. 16949/CE/CAC 1803000696 dated 14.03.2018 valid till 24.01.22 and stipulations made are being complied.
(ii)	No further modification of expansion in the project shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Noted
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (daytime) and 70dBA (nighttime)	Noted and complied. Regular ambient noise monitoring carried out in and around airport area. The noise levels measured are conforming to the standards prescribed under EPA Rules, 1989. Annexure -04 of Monitoring reports.
(iv)	A separate Environmental Management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring function.	Complied, an independent Environment department is functioning under the leadership of Chief Operating Officers and assisted by two Managers. A full-fledged laboratory for testing water parameters is operational and also ambient air, ambient noise levels are continuously monitored through permanently installed stations.
(v)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to	Noted and complied, Separate budget for Environment protection measures and initiatives are allocated every year. Approx. INR 2.32 Cr were spent

	implement to conditions stigulated by	T:- FV 2000 04 5 077 1011
	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.	disposal, greenery maintenance etc.
(vi)	The regional office of this Ministry/CPCB/SPCB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with the statistical interpretation shall be submitted to them regularly.	Noted, monitored data is being submitted along with six monthly compliance report. Last compliance report was submitted on December 14, 2020. Refer Annexure -09 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.	The copy of clearance letter was submitted to MMRDA & Collector vide letter no MIAL/DIR(UP)/158(B)/2017/173 dated 28 th June 2017 and MIAL/DIR(UP)/158(B)/2017/175 dated 28 th June 2017 respectively.
(viii)	A project proponent shall also submit six monthly monitoring reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hardcopies as well as by e-mail) to the Regional Officer of MoEF&CC, the respective Zonal office of CPCB and the SPCB. The regional officer of this Ministry /CPCB/SPCB shall monitor the stipulated conditions.	Last six-monthly compliance report submitted to Ministry/CPCB/MPCB by letter no. MIAL/ENV/20/20 dated: December 14, 2020. Refer Annexure -09 letter of previous compliance report submission.
(ix)	The environmental statement for each financial year ending 31st March in form –V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional office of MoEF&CC by e-mail.	The Environmental statement for FY 2019-20 is submitted on MPCB portal on 28 th September 2021. It is available also available on the website - https://csmia.adaniairports.com/all-reports.aspx Refer Annexure – 10 Environment statement Form- V for FY 20-21.
(x)	The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry	Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 th December 2017.

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	of Environment, Forest & Climate Change at http://www.envfor.nic.in . This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.	
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing of land development work.	Noted
(xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
(xiii)	The ministry reserves the right to stipulate additional conditions, if necessary. The company in time bound manner shall implement these conditions	Noted
(xiv)	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in writ petition (Civil) No 460 of 2004 as may be applicable to this subject.	Noted





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/<u>005</u>

AERODROME LICENSE - PUBLIC USE

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

Mumbai International Airport Limited

(Name of License holder)

for

Chhatrapati Shivaji Maharaj International Airport, Mumbai

(Name & Place of Aerodrome)

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

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

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

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

This Aerodrome License is not transferable.

HICCI INDIA

Date of issue: 01st November 2018

New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

GENERAL CONDITIONS

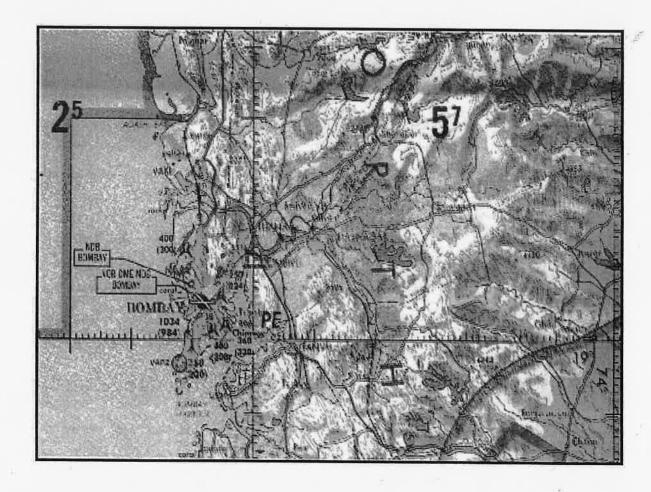
- The Licensee shall ensure that aerodrome facilities, equipment, services and procedures are operated and / or maintained properly and efficiently in accordance with the Aerodrome Manual, submitted to DGCA, the applicable standards set out in the CARs and conditions specified in this license.
- The Licensee shall ensure that the copies of the Aerodrome Manual and Safety Management System (SMS) Manual, accepted by DGCA are always kept complete and current. The Licensee shall ensure that each member of the aerodrome operating staff is aware of the contents of the every part of the aerodrome manual and SMS manual, relevant to his duties and undertakes his duties in conformity with the relevant provisions of these manuals.
- The Licensee shall ensure that an adequate number of qualified and skilled personnel are employed to perform all critical activities for the operation and maintenance of its aerodrome, and that a programme to upgrade the competency for the personnel is in place.
- 4. The Licensee shall notify the agency responsible for Aeronautical Information Services and the air traffic control unit immediately of any obstacles, obstructions or hazards, change in level of service at the aerodrome as set out in any publication by the aeronautical information services or variation from the Standards; closure of the movement area of the aerodrome; significant change in aerodrome facility or the physical layout of the aerodrome; and any other condition that could affect aviation safety at the aerodrome and against which precautions are warranted.
- 5. The Licensee shall notify the agency responsible for Aeronautical Information Services of any change to any aerodrome facility or equipment or level of service at the aerodrome which has been planned in advance and which is likely to affect the accuracy of the information contained in any publication by the agency before effecting the change.
- The licensee shall be responsible to ensure that all security and anti-hijacking arrangements stipulated from time to time by the Bureau of Civil Aviation Security for the aerodrome are complied with.
- When so demanded by an officer duly authorized under the Aircraft Rules, 1937, this license and any other relevant documents shall be produced for inspection.
- The licensee shall be responsible for payment to the concerned authorities of all applicable charges pertaining to the services provided by such authorities in connection with the aerodrome operation such as water supply, electricity supply, telephone lines etc.
- 9. Licensee shall maintain record of all aircraft landing at and taking-off from the aerodrome.
- 10. The Licensee shall have legally tenable agreement with CNS and ATM service provider(s) to ensure continuity and reliability of CNS and ATM to ensure the safety of aircraft in the airspace associated with aerodrome, and that proper coordination with the agencies responsible for aeronautical information services, meteorological services, security and other areas related to safety are established.
- 11. The aerodrome shall at all reasonable times be open to use by any aircraft in the service of the Central Government.
- 12. The licensee shall ensure that during the validity of the license the capability of the services/facilities, etc. is not degraded below the notified level.
- 13. The licensee is to submit the application for renewal in prescribed proforma along with relevant enclosures and fee, at least 2 months before expiry of license to the Director General of Civil Aviation. The license may be renewed if DGCA is satisfied that all requirements have been fulfilled.
- Other requirements of Central Government and State Government as applicable shall be complied with.

License No. AL/Public/ 005

- 15. The aerodrome is licensed for use in IFR (All weather) / VFR (Day) conditions.
- 16. Any other conditions

 Actions required to be completed by the licensee are specified in
Annexure – I, hereto.
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Portion of map showing exact location of aerodrome.



SCHEDULE-II

VALIDITY OF THE LICENSE

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

FROM	то	SIGNATURE			
03.05.2018	02.05.2020	पहानिदेशका विज्ञान क्रिकेट			
8.3 MAY 2020	8.2 MAY 2022	सहाविकाम भागर विमानन स्थाप Kungan Agua Kun Eroclor General of Give Avision Agua Kun			
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Annexure to SI. No. 16 of General Conditions of license.

Actions required to be completed by the licensee:-

- i. Submission of detailed procedures with regard to operations and maintenance of visual and electrical aids maintained at CSMI Airport. The procedures are to be elaborated as part of the concerned chapter i.e. 'Aerodrome operating Procedures'.
- ii. Submission of Action plan including the time period by which licensee would be able to comply with the non-complied items as indicated in the CAR Section 4 series B Part-1 compliance checklist for CSMI Airport prepared by licensee.
- iii. The SMS Manual is required to be amended to include the role of Safety Officer. The SMS implementation plan is also required to be worked out.
- iv. The aerodrome Operator should possess the updated OLS maps.

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Annexure - 02 Barricading practices

Annexure - 02 Barricading practices for Construction site

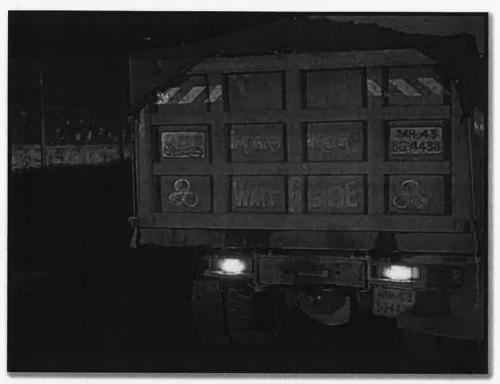


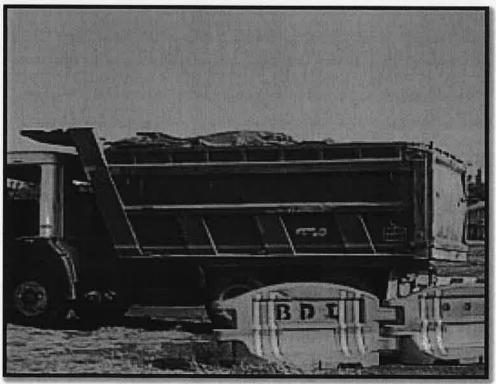




Annexure - 3 Construction material truck covered by impervious sheeting

Annexure -03 -





Annexure -04 For monitoring reports



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091

Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/04/64						Issue Date: 03/05/2021
Name of Client				Mumbai Inte	ernational Airp	ort Ltd
				Chhatrapati	Shivaji Interna	tional Airport
				1 St Floor, Te	rminal 1B, Sant	tacruz (E), Mumbai – 400099
Name o	of Site		:		rnational Airp	
Nature of sample			:	Ambient Air		
	on of sample		:	OWTF (Kurla)	
Sample	e Identification n	umber	:	A- 21/04/64		
Sample	Quantity & Con	tainer	:	SO ₂ :3 Bottle x	30 ml; NOx:3 B	ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;
				O ₃ & NH ₃ :3 Bo	ottle x 30 ml	
	sampling		:	21/04/2021		
Start Time of sampling				09:00 hrs	USRG-1	
Sampling period			:	24 hrs		
Environmental Condition			:	Climate clear Ambient temp. 33°C		
	sample receipt		:	24/04/2021		
	sample analysis		:	24/04/2021-		The state of the s
	red & transport	ed by	:		ultancy Divisio	
	ng equipment		:	Air Sampler RDS-I-09 & FDS-I-09		
	tion status		:			libration due on 31/12/2021
	/ Job number				431 Dated 26/	05/2020
	nce of sampling d of sampling & p				QR/7.3.3/R-02	
Sr.No.	Parameter	Result	1:	Limits #	OP/7.3.1/A-01 Unit	Mathad of Amelysis
1.	SO ₂	15.4		80 *	μg/m³	Method of Analysis IS 5182 (Part 2) RA2017
2.	NO ₂	25.1		80 *	μg/m³	IS 5182 (Part 6) RA2017
3.	PM ₁₀	65.6		100*	μg/m³	IS 5182 (Part 23) RA2017
4.	PM _{2.5}	23.8		60 *	μg/m³	* IS 5182 (Part 24) 2019
5.	Lead [Pb]	< 0.8		1.0 *	μg/m³	APHA Air method 822-3rdEd
6.	CO	0.43		04 **	mg/m³	IS 5182 (part 10) RA2019
7.	NH ₃	< 1.0		400 *	μg/m³	IS 5182 (part 25) RA 2018

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS) 2009.

Note:

- 1. The test report shall not be reproduced except in full, without written approval of laboratory.
- 2. Results relate only to the items tested.
- 3. Above all parameters are not covered under NABL scope.
- 4. Any query related to this report will be entertained within 15 days of the report issue date only.
- 5. Decision Rule is applied.
- 6. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory – Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091

	WORLDWAY (ACTIVITY)	<u>Aml</u>	oien	t Air Quality T	<u>'est Report</u>		
Ref. No.: AESPL/LAB/A- 21/04/65						Issue Date: 03/05/2021	
Name of Client			:	Mumbai International Airport Ltd			
				Chhatrapati	Shivaji Interna	tional Airport	
				_	tacruz (E), Mumbai – 400099		
Name of Site			:		ernational Airp		
Nature	e of sample		:	Ambient Air			
	on of sample		:		ospital (Ghatkop	arl	
Sample	e Identification n	umber	1:	A- 21/04/65		ur,	
	e Quantity & Cont					ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;	
				O ₃ & NH ₃ :3 B	O ₃ & NH ₃ :3 Bottle x 30 ml		
Date o	f sampling		:				
	ime of sampling	1		09:30 hrs	Office of Land		
Sampling period				24 hrs			
Environmental Condition			:	Climate clear Ambient temp. 33°C			
	f sample receipt			24/04/2021			
	f sample analysis			24/04/2021-29/04/2021			
	ored & transporte	d by		AESPL Consultancy Division			
Sampli	ing equipment			Air Sampler I	RDS-I-10 & FDS-I	-10	
	ation status		:	Calibrated on 01/01/2021 Calibration due on 31/12/2021			
	t/ Job number		:	PO 4600005431 Dated 26/05/2020			
	nce of sampling		:		QR/7.3.3/R-02		
	d of sampling & p		:		SOP/7.3.1/A-01		
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis	
1.	SO ₂	14.5		80 *	μg/m³	IS 5182 (Part 2) RA2017	
2.	NO ₂	24.0		80 *	μg/m³	IS 5182 (Part 6) RA2017	
3.	PM ₁₀	63.7		100*	μg/m³	IS 5182 (Part 23) RA2017	
4.	PM _{2.5}	23.8		60 *	μg/m³	IS 5182 (Part 24) 2019	
5.	Lead [Pb]	< 0.8		1.0 *	μg/m³	APHA Air method 822-3rdEd	
6.	CO	0.37		04 **	mg/m³	JS 5182 (part 10) RA2019	

< 1.0 [#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

 $\mu g/m^3$

IS 5182 (part 25) RA 2018

400 *

Note:

7. NH₃

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- 3. Above all parameters are not covered under NABL scope.
- 4. Any query related to this report will be entertained within 15 days of the report issue date only.
- 5. Decision Rule is applied.
- 6. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091

Ambient Air Quality Test Penort

Ref. N	o.: AESPL/LAB/A			t Air Quality)	Issue Date: 03/05/2021	
Name	of Client		:	Mumbai Int	ernational Airp		
					Shivaji Interna		
					St Floor, Terminal 1B, Santacruz (E), Mumbai		
Name of Site					ernational Airp		
Nature	of sample		1:	Ambient Air			
Locatio	on of sample		:	Project Office	(Sahar)		
Sample	e Identification n	umber		A- 21/04/66			
Sample Quantity & Container				SO ₂ :3 Bottle 2 O ₃ & NH ₃ :3 B		ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;	
Date of	fsampling		: 22/04/2021				
Start T	ime of sampling		: 10:00 hrs				
Sampling period				24 hrs			
Environmental Condition				Climate clear Ambient temp. 33°C			
	f sample receipt	LEVILLE, IV.		24/04/2021			
	f sample analysis		:	24/04/2021-29/04/2021			
	red & transport	ed by		AESPL Cons	ultancy Division	n	
	ng equipment		:	Air Sampler I	RDS-I-09 & FDS-I	-09	
	ition status		100			libration due on 31/12/2021	
	t/ Job number		(2)	PO 4600005	431 Dated 26/	05/2020	
	nce of sampling				QR/7.3.3/R-02		
Metho	d of sampling & p		1:		SOP/7.3.1/A-01		
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis	
1.	SO ₂	15.8		80 *	μg/m³	IS 5182 (Part 2) RA2017	
2.	NO ₂	25.0		80 *	μg/m³	IS 5182 (Part 6) RA2017	
3.	PM ₁₀	65.3		100*	μg/m³	IS 5182 (Part 23) RA2017	
4.	PM _{2.5}	24.4		60 *	μg/m³	IS 5182 (Part 24) 2019	
5.	Lead [Pb]	< 0.8		1.0 *	μg/m ³	APHA Air method 822-3rdEd	
6.	CO	0.49	-	04 **	mg/m³	MS 5182 (part 10) RA2019	
7.	NH ₃	< 1.0		400 *	μg/m³	IS 5182 (part 25) RA 2018	

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for

monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

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- 5. Decision Rule is applied.
- 6. The results apply to the sample as received.



Chetan A Kadam

(Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091

Ambient Air Quality Test Report

	AESPL/LAB/A	- 21/04/67	-			Issue Date: 03/05/2021			
Name of	Client		:	Mumbai Int	ernational Airp	oort Ltd			
				Chhatrapati Shivaji International Airport					
				1 St Floor, Te	1 St Floor, Terminal 1B, Santacruz (E), Mumbai - 400099				
Name of	Site		:		ernational Airp				
Nature o			:	Ambient Air	1				
	of sample		:	MLCP (Vile F	arle)				
	dentification n		:	A- 21/04/67					
Sample Q	uantity & Con	tainer	:	SO ₂ :3 Bottle	x 30 ml; NOx:3 B	ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;			
				O ₃ & NH ₃ :3 B	ottle x 30 ml				
Date of sa			:	22/04/2021					
	e of sampling		:	10:30 hrs	Time and				
Sampling		-	:	24 hrs					
	nental Conditi	on	:	Climate clear Ambient temp. 33°C					
	ample receipt	N. C. C.	:	24/04/2021					
	ample analysis		1	24/04/2021-29/04/2021					
	d & transport	ed by	:		ultancy Divisio				
	equipment		:		RDS-I-10 & FDS-				
Calibratio			:	Calibrated or	n 01/01/2021 Ca	alibration due on 31/12/2021			
	lob number		:	PO 4600005	5431 Dated 26/	05/2020			
	e of sampling				QR/7.3.3/R-02				
	f sampling & p		1:		SOP/7.3.1/A-01	The state of the s			
	Parameter	Result		Limits #	Unit	Method of Analysis			
	SO ₂	15.3		80 *	μg/m³	IS 5182 (Part 2) RA2017			
	PM_{10}	24.7		80*	μg/m³	IS 5182 (Part 6) RA2017			
	PM _{2.5} %	23.8	-	100*	μg/m³	IS 5182 (Part 23) RA2017			
				60*	μg/m ³	¹ IS 5182 (Part 24) 2019			
	CO CO	< 0.8 0.40		1.0 *	μg/m ³	APHA Air method 822-3rdEd			
	NH ₃	< 1.0	+	400 *	mg/m³	IS 5182 (part 10) RA2019			
		nal Ambient Ai			μg/m³	IS 5182 (part 25) RA 2018			

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS) 2009.

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- 5. Decision Rule is applied.
- 6. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory – Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



IS 5182 (part 25) RA 2018

		<u>Amb</u>	ien	t Air Quality T	est Report			
Ref. N	o.: AESPL/LAB/A- 2	21/05/23		Issue Date: 24/05/2021				
Name	of Client		;	Mumbai Inte	ernational Airp	ort Ltd		
				Chhatrapati Shivaji International Airport				
					tacruz (E), Mumbai – 400099			
Name	of Site		:		ernational Airp			
Nature	of sample		:	Ambient Air				
	on of sample		:	OWTF (Kurla)			
Sample	e Identification nu	mber	:	A- 21/05/23				
	e Quantity & Conta		er : SO ₂ :3 Bottle x 30 ml; NOx:3 Bottle x 30 ml; PM ₁₀ -1; PM ₂					
				O ₃ & NH ₃ :3 Bo				
	f sampling		: 10/05/2021					
	ime of sampling		:	: 09:00 hrs				
	ing period		: 24 hrs					
	nmental Condition		:	: Climate clear Ambient temp. 33°C				
	f sample receipt	ALC END	:	13/05/2021				
	f sample analysis	100 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	14/05/2021-	21/05/2021			
	ored & transported	d by	:		ultancy Divisio			
	ng equipment		:		DS-I-09 & FDS-I			
	ntion status	V 3 42 9	:			dibration due on 31/12/2021		
	t/ Job number				431 Dated 26/	05/2020		
	nce of sampling		(2)		QR/7.3.3/R-02			
	d of sampling & pr		:		OP/7.3.1/A-01			
Sr.No. 1.	Parameter SO ₂	Result	₽	Limits #	Unit	Method of Analysis		
2.		15.5		80 *	μg/m³	IS 5182 (Part 2) RA2017		
3.	NO ₂	23.9	-	80 *	μg/m³	IS 5182 (Part 6) RA2017		
4.	PM ₁₀	64.9	-	100*	μg/m³	IS 5182 (Part 23) RA2017		
	PM _{2.5}	22.9	-	60 *	μg/m³	IS 5182 (Part 24) 2019		
5.	Lead [Pb]	< 0.8	-	1.0 *	l μg/m ³	APHA Air method 822-3rdEd		
6.	CO	0.37		04 **	g mg/m ³	IS 5182 (part 10) RA2019		

< 1.0 $\mu g/m^3$ [#] Specified under National Ambient Air Quality Standards by CPCB:

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400 *

Note:

 NH_3

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Chetan A Kadam (Authorized Signatory - Pollution & Environment)



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Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Ambient Air Quality Test Report

Ref. N	o.: AESPL/LAB/A	21/05/24		1	3	Issue Date: 24/05/2021			
Name	of Client		:	Mumbai Inte	Mumbai International Airport Ltd				
					Chhatrapati Shivaji International Airport				
					1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 40009				
Name	of Site		ï		ernational Airp				
Nature	of sample		1	Ambient Air					
	on of sample		:		spital (Ghatkopa	arl			
Sample	e Identification n	umber		A- 21/05/24					
Sample	e Quantity & Con	tainer		SO ₂ :3 Bottle x	30 ml; NOx:3 Bo	ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;			
				O ₃ & NH ₃ :3 Bottle x 30 ml					
Date o	fsampling		:	10/05/2021					
	ime of sampling		:	09:30 hrs					
	ng period	- 46	:	: 24 hrs					
	nmental Condition	on	:	: Climate clear Ambient temp. 33°C					
	sample receipt		:						
	f sample analysis		:	14/05/2021-		TORE .			
	red & transport	ed by	:		ultancy Division				
Sampli	ng equipment		:		DS-I-10 & FDS-I				
	tion status	TA "Malle	:			libration due on 31/12/2021			
	/ Job number		:		431 Dated 26/	05/2020			
	nce of sampling		:		QR/7.3.3/R-02				
Sr.No.	of sampling & p		1:		OP/7.3.1/A-01				
1.	SO ₂	Result		Limits #	Unit	Method of Analysis			
2.	NO ₂	14.2		80 *	μg/m ³	IS 5182 (Part 2) RA2017			
3.	PM ₁₀	62.9		80 * 100 *	μg/m³	IS 5182 (Part 6) RA2017			
4.	PM _{2.5}	20.8		60 *	μg/m ³	IS 5182 (Part 23) RA2017			
5.	Lead [Pb]	< 0.8		1.0*	μg/m ³	IS 5182 (Part 24) 2019			
6.	CO	0.34	+	04 **	μg/m ³	APHA Air method 822-3rdEd			
7.	NH ₃	< 1.0	+	400 *	mg/m³	IS 5182 (part 10) RA2019			
F 117.0	11113	1.0		400	μg/m³	IS 5182 (part 25) RA 2018			

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. **Conformity Statement**: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAOS)2009.

Note:

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- 4. Decision Rule is applied.
- 5. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory – Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192



TC-7085

Ambient Air Quality Test Report

Ref. No.: AESPL/LAB/A- 21/05/25 Issue Date: 24/05/2021 Name of Client Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099 Name of Site Mumbai International Airport Nature of sample Ambient Air Location of sample Project Office (Sahar) Sample Identification number A-21/05/25 Sample Quantity & Container SO₂:3 Bottle x 30 ml; NOx:3 Bottle x 30 ml; PM₁₀-1; PM_{2.5}-1; O₃ & NH₃:3 Bottle x 30 ml Date of sampling 11/05/2021 Start Time of sampling 09:10 hrs Sampling period 24 hrs **Environmental Condition** Climate clear Ambient temp. 33°C Date of sample receipt 13/05/2021 Date of sample analysis 14/05/2021-21/05/2021 Monitored & transported by **AESPL Consultancy Division** Sampling equipment Air Sampler RDS-I-09 & FDS-I-09 Calibration status Calibrated on 01/01/2021 Calibration due on 31/12/2021 Project/ Job number PO 4600005431 Dated 26/05/2020 Reference of sampling AESPL/LAB/QR/7.3.3/R-02

Method of sampling & preservation AESPL/LAB/SOP/7.3.1/A-01 Sr.No. Parameter Result Limits # Unit **Method of Analysis** SO₂ 1. 15.5 * 08 $\mu g/m^3$ IS 5182 (Part 2) RA2017 2. NO_2 23.7 80 * $\mu g/m^3$ IS 5182 (Part 6) RA2017 3. PM₁₀ 63.8 100 * $\mu g/m^3$ IS 5182 (Part 23) RA2017 4. $PM_{2.5}$ 21.3 60 * $\mu g/m^3$ IS 5182 (Part 24) 2019 5. Lead [Pb] < 0.8 1.0 * APHA Air method 822-3rdEd $\mu g/m^3$ 6. CO 0.39 04 ** * IS 5182 (part 10) RA2019 mg/m³ NH₃ < 1.0 400 * **IS 5182** (part 25) RA 2018 $\mu g/m^3$

[#] Specified under National Ambient Air Quality Standards by CPCB:

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TC-7085

IS 5182 (part 25) RA 2018

Ambient Air Quality Test D

			ien	t Air Quality T	<u>'est Report</u>			
Ref. N	o.: AESPL/LAB/A- 2	1/05/26				Issue Date: 24/05/2021		
Name	of Client			Mumbai Inte	ernational Airpo	ort Ltd		
				Chhatrapati	Shivaji Internat	tional Airport		
						acruz (E), Mumbai – 400099		
Name	of Site		:		Mumbai International Airport			
Natur	e of sample		:	Ambient Air				
	on of sample		:	MLCP (Vile Pa	arle)			
Sampl	e Identification nu	mber	:	A- 21/05/26				
Sampl	e Quantity & Conta	iner	:	SO ₂ :3 Bottle x	30 ml; NOx:3 Bc	ottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;		
				O ₃ & NH ₃ :3 Bottle x 30 ml				
	of sampling		:	: 11/05/2021				
	Time of sampling		:	: 09:30 hrs				
	ing period		:					
	onmental Condition	16	:	: Climate clear Ambient temp. 33°C				
	f sample receipt		:	13/05/2021				
	f sample analysis		:	14/05/2021-	-21/05/2021	0.0		
	ored & transported	by	:		ultancy Divisior			
	ing equipment		:		DS-I-10 & FDS-I-			
	ation status		:			libration due on 31/12/2021		
	t/ Job number				431 Dated 26/0	05/2020		
	ence of sampling		:		QR/7.3.3/R-02			
	d of sampling & pro		1:		SOP/7.3.1/A-01			
Sr.No.		Result		Limits #	Unit	Method of Analysis		
1.	SO ₂	15.9		80 *	μg/m³	IS 5182 (Part 2) RA2017		
2.	NO ₂	24.8		80 *	μg/m³	JS 5182 (Part 6) RA2017		
3.	PM ₁₀	64.8		100 * μg/m³ IS 5182 (Part 23) RA2017				
4.	PM _{2.5}	22.1		60 * μg/m³ 🖟 IS 5182 (Part 24) 2019				
5.	Lead [Pb]	< 0.8		1.0 *	l μg/m³	APHA Air method 822-3rdEd		
6.	CO	0.52		04 **	mg/m ³	AS 5182 (part 10) RA2019		

< 1.0 $\mu g/m^3$ [#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for

400 *

monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

Note:

 NH_3

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Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Ambient Air Quality Test Report

Ret. No	a: AESPL/LAB/A-	21/06/108	_			Issue Date: 02/07/2021			
Name o	of Client			Mumbai Int	ernational Air	port Ltd			
				Chhatrapati	Shivaji Intern	ational Airport			
				1 St Floor, Te	1 St Floor, Terminal 1B, Santacruz (E), Mumbai - 40009				
Name o	of Site		:	Mumbai Int	ernational Air	port			
Nature	of sample		:	Ambient Air					
	n of sample		:	OWTF (Kurla	a)				
Sample	Identification nu	ımber	:	A-21/06/10					
Sample	Quantity & Conta	ainer	:	SO ₂ :3 Bottle x 30 ml; NOx:3 Bottle x 30 ml; PM ₁₀ -1; PM _{2,5} -1					
	177			O ₃ & NH ₃ :3 B	ottle x 30 ml	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			
	sampling		10:0	24/06/2021					
	me of sampling		1 83	09:00 hrs	Maria				
	ng period			24 hrs					
	nmental Conditio	n +State		Climate clear Ambient temp. 29°C					
Date of	sample receipt		1210	26/06/2021					
Date of	sample analysis			26/06/2021-02/07/2021					
Monito	red & transporte	d by		AESPL Consultancy Division					
Samplii	ng equipment		1	Air Sampler I	RDS-I-09 & FDS-	-I-09			
	tion status			Calibrated or	01/01/2021 C	alibration due on 31/12/2021			
	/ Job number		:	460000543	1; Amd 03 dtd	27.04.21			
	ice of sampling	1000	:	AESPL/LAB/	QR/7.3.3/R-02				
	of sampling & pr		:		SOP/7.3.1/A-01				
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis			
1.	SO ₂	14.0		80 *	$\mu g/m^3$	IS 5182 (Part 2) RA2017			
2.	NO ₂	23.9		80 *	μg/m³	IS 5182 (Part 6) RA2017			
3.	PM ₁₀	62.2		100 *	μg/m³	IS 5182 (Part 23) RA2017			
4. 5.	PM _{2.5}	20.4		60 *	μg/m³	IS 5182 (Part 24) 2019			
5. 6.	Lead [Pb]	< 0.8		1.0 *	μg/m³	APHA Air method 822-3rdEd			
7.	CO a	0.37		04 **	mg/m ³	IS 5182 (part 10) RA2019			
	NH ₃	< 1.0		400 *	μg/m³	IS 5182 (part 25) RA 2018			

[#] Specified under National Ambient Air Quality Standards by CPCB:

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Chetan A Kadam (Authorized Signatory - Pollution & Environment)



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Ambient Air Quality Test Report

	o.: AESPL/LAB/A	- 21/06/109	_			Issue Date: 02/07/2021		
Name	of Client		:		ernational Air			
				Chhatrapati Shivaji International Airport				
				1 St Floor, Te	erminal 1B, Sar	ntacruz (E), Mumbai – 400099		
Name (of Site		:		ernational Air			
Nature	of sample			Ambient Air				
	on of sample		:	Sarvodaya H	ospital (Ghatko	parl		
Sample	e Identification n	umber		A- 21/06/10				
Sample	Quantity & Con	tainer	1			Bottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;		
		2		O ₃ & NH ₃ :3 B	ottle x 30 ml	,		
	f sampling		:	24/06/2021				
	ime of sampling	J		09:30 hrs				
	ng period		:	: 24 hrs				
	nmental Conditio	on	1	: Climate clear Ambient temp. 29°C				
	sample receipt	47	:					
	sample analysis		:	26/06/2021-02/07/2021				
Monito	red & transporte	ed by	:	AESPL Cons	ultancy Divisio	on		
	ng equipment		:	Air Sampler	RDS-I-10 & FDS-	·I-10		
	tion status		:			alibration due on 31/12/2021		
	/ Job number		:		1; Amd 03 dtd	27.04.21		
	nce of sampling		:		QR/7.3.3/R-02			
	l of sampling & p		1:		SOP/7.3.1/A-01			
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis		
1. 2.	SO ₂	14.2		80 *	μg/m³	IS 5182 (Part 2) RA2017		
3.	NO ₂	24.2	-	80 *	μg/m³	IS 5182 (Part 6) RA2017		
4.	PM ₁₀	62.9	-	100* μg/m³ IS 5182 (Part 23) RA20				
<u>4.</u> 5.	200			60 *	μg/m³	IS 5182 (Part 24) 2019		
6.	Lead [Pb]	< 0.8	-	1.0 *	μg/m³	APHA Air method 822-3rdEd		
	CO	0.38	_	04 **	mg/m ³	■ AS 5182 (part 10) RA2019		
7.	NH ₃	< 1.0		400*	$\mu g/m^3$	IS 5182 (part 25) RA 2018		

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values.

Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

Note:

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- 4. Decision Rule is applied.
- 5. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Ambient Air Quality Test Report

	o.: AESPL/LAB/A-	21/06/110			7	Issue Date: 02/07/2021			
Name	of Client		:	Mumbai Int	ernational Airp	oort Ltd			
				Chhatrapati	Chhatrapati Shivaji International Airport				
					1 St Floor, Terminal 1B, Santacruz (E), Mumbai - 40009				
Name (of Site		:		ernational Airr				
	of sample		1	Ambient Air					
	on of sample		1	: Project Office (Sahar)					
Sample	e Identification nu	umber	:	A- 21/06/11					
Sample	e Quantity & Cont	ainer	:			Sottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1;			
				O ₃ & NH ₃ :3 B		2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
	fsampling		1	25/06/2021					
	ime of sampling			09:10 hrs					
	ng period			: 24 hrs					
	nmental Conditio	n jakita and		Climate clear	mate clear Ambient temp. 29°C				
	f sample receipt		:	26/06/2021	26/06/2021				
Date of	f sample analysis			26/06/2021-	-02/07/2021	District Parent			
Monito	red & transporte	d by		AESPL Cons	ultancy Divisio	n			
	ng equipment		1	Air Sampler I	RDS-I-09 & FDS-	I-09			
	tion status			Calibrated on	01/01/2021 Ca	alibration due on 31/12/2021			
	/ Job number				1; Amd 03 dtd:	27.04.21			
	nce of sampling		:		QR/7.3.3/R-02				
	l of sampling & pr		:		SOP/7.3.1/A-01				
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis			
2.	SO ₂	13.9		80 *	μg/m³	IS 5182 (Part 2) RA2017			
3.	NO ₂	24.0		80 *	μg/m³	IS 5182.(Part 6) RA2017			
4.	PM ₁₀	61.4	-	100 *	μg/m³	IS 5182 (Part 23) RA2017			
5.	PM _{2.5} §	20.4	-	60 *	μg/m³	IS 5182 (Part 24) 2019			
6.	Lead [Pb]	< 0.8	-	1.0 *	μg/m³	APHA Air method 822-3rdEd			
7.		0.40		04 **	mg/m ³	IS 5182 (part 10) RA2019			
/ e	NH ₃	< 1.0		400 *	μg/m³	IS 5182 (part 25) RA 2018			

[#] Specified under National Ambient Air Quality Standards by CPCB:

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. **Conformity Statement**: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS) 2009.

Note:

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- 5. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory – Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



Ambient Air Quality Test Der

		Aml	oien	t Air Quality T	est Report			
	o.: AESPL/LAB/A-2	21/06/111				Issue Date: 02/07/2021		
Name o	of Client		:	Mumbai Inte	ernational Airpo	ort Ltd		
				Chhatrapati	Shivaji Internat	ional Airport		
						acruz (E), Mumbai – 400099		
Name o	of Site		:		rnational Airpo			
Nature	of sample		:	Ambient Air				
Locatio	on of sample		i	MLCP (Vile Pa	arle)			
Sample	Identification nu	mber		A- 21/06/11				
Sample	e Quantity & Conta	iner	•5	SO ₂ :3 Bottle x 30 ml; NOx:3 Bottle x 30 ml; PM ₁₀ -1; PM _{2.5} -1; O ₃ & NH ₃ :3 Bottle x 30 ml				
Date of	sampling		:	: 25/06/2021				
Start Ti	ime of sampling		DI:	: 09:30 hrs				
	ng period			: 24 hrs				
Enviro	nmental Conditio	n -		: Climate clear Ambient temp.29°C				
	sample receipt		(4)	26/06/2021				
	sample analysis		2/8/1	26/06/2021-		1 (04)		
	red & transported	d by		AESPL Const	ultancy Division			
	ng equipment				DS-I-10 & FDS-I-			
	tion status		:	Calibrated on	01/01/2021 Cal	ibration due on 31/12/2021		
	/ Job number	KAN ILI OIL	1		431 Dated 26/0	05/2020		
	nce of sampling				QR/7.3.3/R-02			
	of sampling & pr		1:		SOP/7.3.1/A-01			
Sr.No.	Parameter	Result		Limits #	Unit	Method of Analysis		
1.	SO ₂	14.0		80 *	μg/m³	IS 5182 (Part 2) RA2017		
2.	NO ₂	23.9		80 *	μg/m³	IS 5182 (Part 6) RA2017		
3.	PM ₁₀	62.9		100*	μg/m³	IS 5182 (Part 23) RA2017		
4.	PM _{2.5}	21.3		60 *	μg/m³ 🚦	IS 5182 (Part 24) 2019		
5.	Lead [Pb]	< 0.8		1.0 *	$\mu g/m^3$	APHA Air method 822-3rdEd		

< 1.0 $\mu g/m^3$ [#] Specified under National Ambient Air Quality Standards by CPCB:

0.42

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values. Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009.

400 *

mg/m³

LS 5182 (part 10) RA2019

IS 5182 (part 25) RA 2018

Note:

CO

 NH_3

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Chetan A Kadam (Authorized Signatory - Pollution & Environment)

Ashwamedh Engineers & Consultants Survey No.102, Plot No.26, Wadala Pathardi Road, Indira Nagar, Nashik-422009, Maharashtra, India (Turn at Samrat Sweet, Guru Gobind School) sales@ashwamedh.net T/F:+91-253-2392225





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/07/21/05	Report No.: AA/07/21/0536		Report Date	04/08/2021		
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	onal Airport,				
Sample Collected by	Laboratory	Sample Description/ Type	Atmosph	Air (Group: eric Pollution up: Ambient Air		
Sampling Location	Project Office Sahara	Date-Sampling		28/07/2021 to 29/07/2021		
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 1 no. filter paper PM ₂₅ : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	30/07/20	021		
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/20)21		
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis		03/08/2021		
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No	ECL/AEC 21/FLOW			

Me	eteorol	ogical D	ata / Env	ironme	ental Conditions		
Average Wind velocity 10.3 km/h	e Wind velocity Wind Direction		Relative Hum (Max./ Min.):8	idity	Temperature Duration of S (Max./Min.):30/24°C 24 h		
Parameter	ter		NAAQS # 2009	Unit	Method		
CHEMICAL TESTING							
Sulphur Dioxide (SO2)		30.8	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO2)		<6.5	80	µg/m³	IS 5182 (Part S): 2006, RA 2017		
Particulate Matter (size less than 10 µm)	or PM ₁₀	53	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	11	60	μg/m³	USEPA CFR 40, Part 50, Appendix L		
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 Jun 1999		
Carbon Monoxide (CO)		1.28	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.16		
Ammonia (NH₃)		<4	400	µg/m³	AEC/C/SAP/AA-7		

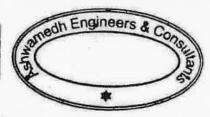
TWA

Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM₂₅, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



----End of Report----

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/07/21/0							
Name & Address of Customer	Chh 1st i	mbai International Airport Ltd. atrapati Shivaji Maharaj Internation Floor, Terminal 1B, Santacruz (E), nbai-400099, Maharashtra.	al Airport,	A			
Sample Collected by	Lab	pratory	Sample Description/ Type	Atmosph	Air (Group: peric Pollution up: Ambient Air		
Sampling Location	Terr	ninal 1 MLCP (Santacruz)	Date-Sampling	The Control of the Williams	28/07/2021 to 29/07/2021		
Sample Quantity/ Packing	PM ₂ SO ₂ each NH ₃	o,Lead: 1 x 1 no. filter paper s: 1 x 1 no. filter paper , NO2: 30 ml x 6 no. plastic bottle s: 10 ml x 24 no. plastic bottle 1 no. bladder	Date-Receipt of Sample	30/07/20	021		
Sampling Procedure		er method reference	Date-Start of Analysis	30/07/20	021		
Order Reference	W.O 08.0	. No. 4600005756 dated 7.2021	Date-Completion of Analysis		03/08/2021		
Sampling Equipment ID	AEC,	/TH/RDS-03	Calibration Certificate No.	ECL/AEC 21/FLOW			

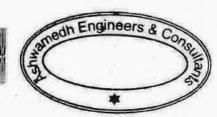
Me	eteorol	ogical D	ata / Envi	ironme	ental Conditions		
Average Wind velocity 10.2 km/h	Wind Dire S-E	ection Relative Humidity			Temperature (Max./Min.):29/23°C	Duration of Survey 24 h	
Parameter		Results	NAAQS # 2009	Unit	Method		
CHEMICAL TESTING							
Sulphur Dioxide (SO₂)		<4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO2)	21.5	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm)	or PM ₁₀	51	100	μg/m³	IS 5182 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	10	60	µg/m³	USEPA CFR 40. Part 50, Appendix L		
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 Jun 1999		
Carbon Monoxide (CO)		1.14	4	mg/m³	CPC8 Guidelines, 37/2012-13, Page no.16		
Ammonia (NH₃)		<4	400	μg/m³	AEC/C/SAP/AA-7		

Time Weighted Average TWA

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



----End of Report---

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AMRIENT ATR QUALTI

Sample ID: AA/07/21/05	38 Report No.: AA/07/21/0538	Report No.: AA/07/21/0538 Rep			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	nal Airport,		04/08/2021	
Sample Collected by	Laboratory	Sample Description/ Type	Atmos Sub G	Ambient Air (Group: Atmospheric Pollution Sub Group: Ambient Air Quality)	
Sampling Location	OWC (Kurla)	Date-Sampling		28/07/2021 to 29/07/2021	
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 1 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	30/07/	30/07/2021	
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/	30/07/2021	
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analy			
Sampling Equipment ID	AEC/TH/RDS-04	Calibration Certificate No.	21/FLC	ECL/AEC/2020- 21/FLOW/3938A Dated 29.11.2018	

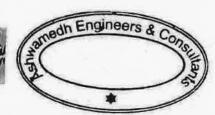
Me	eteorol	ogical D	ata / Envi	ironme	ental Conditions	
Average Wind velocity 10.4 km/h	Wind Direction S-E		Relative Humidity (Max./ Min.):84/69%		Temperature (Max./Min.):28/23°C	Duration of Survey 24 h
Parameter Res		Results	NAAQS # 2009	Unit	Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO ₂)		<4	80	μġ/m³-	IS 5182 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO2))	<6.5	80	µg/m³	IS 5/87 (Part 6): 2006, RA 20/7	
Particulate Matter (size less than 10 µm)	or PM ₁₀	55	100	μg/m³	IS 5182 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	11	60	μg/m³	USEPA CFR 40. Part 50. Appendix L	
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jun 1999	
Carbon Monoxide (CO)		1.04	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16	
Ammonia (NH ₃)		<4	400	µg/m³	AEC/C/SAP/AA-7	

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



----End of Report-

Note:

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Ashwamedh Engineers & Consultants Survey No.102, Plot No.26, Wadala Pathardi Road, Indira Nagar, Nashik-422009, Maharashtra, India (Turn at Samrat Sweet, Guru Gobind School) sales@ashwamedh.net T/F:+91-253-2392225





AMRIENT ATR QUALITY MONITORING

Sample ID: AA/07/21/05	39 Report No.: AA/07/21/0539	Report No.: AA/07/21/0539			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	al Airport,	,	04/08/2021	
Sample Collected by	Laboratory	Sample Description/ Type	Atmosp	: Air (Group: neric Pollution up: Ambient Air	
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling		28/07/2021 to 29/07/2021	
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 1 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	30/07/2		
Sampling Procedure	As per method reference	Date-Start of Analysis	30/07/2	021	
Order Reference	W.O. No. 4600005756 dated 08.07,2021	Date-Completion of Analysi	A SERVICE OF LAND		
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No.	ECL/AEC 21/FLOV		

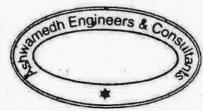
Me	eteorolo	ogical D	ata / Env	ironme	ental Conditions	
Average Wind velocity Wind Dir 10.2 km/h S-V		ection Relative Humidity		idity	Temperature Duration of Survey (Max./Min.):30/26°C 24 h	
Parameter		Results	NAAQS # 2009	Unit	Method	
CHEMICAL TESTING	F1				The second second	
Sulphur Dioxide (SO ₂)		21.9	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO2)	7.45	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm)	or PM ₁₀	44	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm)	ог PM _{2,5}	10	60	µg/m³	USEPA CFR 40, Part 50, Appendix L	
Lead (Pb)		<0.02	1-	μg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 1999	
Carbon Monoxide (CO)		1.05	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.16	
Ammonia (NH₃)		<4	400	µg/m³	AEC/C/SAP/AA-7	

Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide.

Ninad Soundankar

Technical Manager (Chemical) Reviewed & Authorised by



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

Note:

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AEC/FREP/1-B Page 1 of 1





AMBIENT AIR OUALITY MONITORING D

Sample ID: AA/08/21/03	Sample ID: AA/08/21/0327 Report No.: AA/08/21/0327			31/08/2021	
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.		Report Date	*	
Sample Collected by	Laboratory	Sample Description/ Typ	Atmosph	Air (Group: eric Pollution up: Ambient Air	
Sampling Location	Project Office Sahar	Date-Sampling		24/08/2021 to 25/08/2021	
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 1 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder		26/08/20)21	
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/20	121	
Order Reference	W.O. No. 4600005756 dated 08.07.2021	. 4600005756 dated Date-Completion of			
Sampling Equipment ID Consent Number & Date: Fo	AEC/TH/RDS-02	Calibration Certificate No	ECL/AEC/ 21/FLOW	′2020- /3936A	

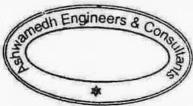
Me	eteorolo	ogical D	ata / Envi	ironme	ental Conditions	•	
Average Wind velocity Wind Direct 10.9 km/h S-E				idity	Temperature (Max./Min.):31/27°C	Duration of Survey 24 h	
Parameter		Results	NAAQS # 2009	Unit			
CHEMICAL TESTING							
Sulphur Dioxide (SO2)		<4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO2)	<6.5	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm)	or PM ₁₀	43	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm)	ог PM _{2.5}	7	60	μġ/m³	USEPA CFR 40, Part 50, Appendix L		
Lead (Pb)		<0.02	1	μg/m³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jun 1999		
Carbon Monoxide (CO)		2.16	4	mg/m³	CPC8 Guidelines, 37/2012-13, Page no.16		
Ammonia (NH ₃)		<4	400	μg/m³	AEC/C/SAP/AA-7		

TWA

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide.

Ninad Soundankar Technical Manager (Chemical)

Reviewed & Authorised by



-End of Report-----

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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.







AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/08/21/03	328	Report No.: AA/08/21/0328 Re			31/08/2021		
Name & Address of Customer	Chh 1st F	mbai International Airport Ltd. atrapati Shivaji Maharaj Internation loor, Terminal 1B, Santacruz (E), nbai-400099, Maharashtra.					
Sample Collected by	by Laboratory Sample Description/ Type		Laboratory		Atmospl	: Air (Group: neric Pollution up: Ambient Ai	
Sampling Location	Terr	ninal (1) MLCP Santacruz	Date-Sampling	The control of the co	24/08/2021 to 25/08/2021		
Sample Quantity/ Packing	PM ₂ . SO ₂ each NH ₃ :	o, Lead: 1 x 1 no. filter paper s: 1 x 1 no. filter paper , NO2: 30 ml x 6 no. plastic bottle s: 10 ml x 24 no. plastic bottle 1 no. bladder	Date-Receipt of Sample	26/08/2021			
Sampling Procedure		er method reference	Date-Start of Analysis	26/08/2	021		
Order Reference		V.O. No. 4600005756 dated Date-Completion of		30/08/2			
Sampling Equipment ID Consent Number & Date: Fo	ipment ID AEC/TH/RDS-03 Ca			21/FLOW			

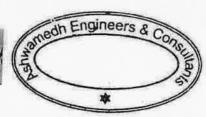
Me	eteorolo	ogical D	ata / Envi	ironme	ental Conditions		
Average Wind velocity 11.2 km/h	verage Wind velocity Wind Direction				Temperature (Max./Min.):31/26°C	Duration of Survey 24 h	
Parameter		Results	NAAQS # 2009	Unit			
CHEMICAL TESTING		- 30					
Sulphur Dioxide (SO2)		<4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO2)	<6.5	80	µg/m³	IS 5882 (Part 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm)	or PM ₁₀	39	100	μg/m³	IS 5182 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	11	60	µg/m³	USEPA CFR 40, Part 50, Appendix L		
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 Jun 1999		
Carbon Monoxide (CO)		1.83	4	mg/m ³	CPC8 Guidelines, 37/2012-13, Page no.16		
Ammonia (NH₃)		<4	400	μg/m³	AEC/C/SAP/AA-7		

Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

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AMBIENT AIR OUALTY MONITORING DEPORT

Sample ID: AA/08/21/0	329	Report No.: AA/08/21/0329		Report Date	31/08/2021		
Name & Address of Customer	Chh 1 st F	mbai International Airport Ltd. atrapati Shivaji Maharaj Internatior loor, Terminal 1B, Santacruz (E), nbai-400099, Maharashtra.		Tryon Duic	31/06/2021		
Sample Collected by	Labo	oratory	Sample Description/ Typ	Atmosph	Air (Group: eric Pollution up: Ambient Air		
Sampling Location	OW	C Kurla	Date-Sampling		24/08/2021 to 25/08/2021		
Sample Quantity/ Packing	PM ₂ , SO ₂ , each NH ₃ :	p,Lead: 1 x 1 no. filter paper s: 1 x 1 no. filter paper s: 002: 30 ml x 6 no. plastic bottle 10 ml x 24 no. plastic bottle l no. bladder	Date-Receipt of Sample	26/08/20	21		
Sampling Procedure	As p	er method reference	Date-Start of Analysis	26/08/20	21		
Order Reference	W.O. 08.0	No. 4600005756 dated 7.2021	Date-Completion of Analysis	-Completion of			
Sampling Equipment ID Consent Number & Date: Fo		TH/RDS-04	Calibration Certificate No	71/F111/M//3038A			

M	eteorol	ogical I	Data / Env	/ironme	ental Conditions	
Average Wind velocity 11.4 km/h	Average Wind velocity 11.4 km/h Wind Direction S-E		ction Relative Humidity		Temperature (Max./Min.):31/26°C	Duration of Survey
Parameter			NAAQS # 2009	Unit	Metho	
CHEMICAL TESTING						
Sulphur Dioxide (SO2)		<4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017	-
Nitrogen Dioxide (NO2)	14.6	80	µg/m³		
Particulate Matter (size less than 10 µm)	or PM ₁₀	45	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	8	60	μg/m³	USEPA CFR 40, Part 50, Appendix L	*
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compandium Method 10-31 & 3.2 Jun 199	
Carbon Monoxide (CO)		1.61	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.16	
Ammonia (NH ₃)		<4	400	µg/m³	AEC/C/SAP/AA-7	

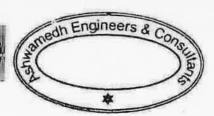
TWA

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, I hour TWA in case of Carbon Monoxide.

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Technical Manager (Chemical) Reviewed & Authorised by



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AMRIENT AIR OUALITY MONITORING DEPORT

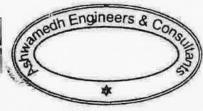
Sample ID: AA/08/21/03	Report No.: AA/08/21/0330	1	Report Date	31/08/2021	
Name & Address of Customer	Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	onal Airport,		-	
Sample Collected by	Laboratory	Sample Description/ Type	Atmosph	Air (Group: leric Pollution up: Ambient Air	
Sampling Location	Sarvoday Hospital	Date-Sampling	24/08/2 25/08/2		
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 1 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	26/08/20	021	
Sampling Procedure	As per method reference	Date-Start of Analysis	26/08/20	021	
Order Reference	W.O. No. 4600005756 dated 08.07.2021	D. No. 4600005756 dated Date-Completion of		30/08/2021	
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No	No. ECL/AEC/2020- 21/FLOW/3934A		

Me	eteorole	ogical D	ata / Envi	ronme	ental Conditions	5	
Average Wind velocity 10.8 km/h	verage Wind velocity Wind Dire		Relative Humidity (Max./ Min.):74/62%		Temperature (Max./Min.):31/26°C	Duration of Survey 24 h	
Parameter		Results	NAAQS # 2009	Unit	Metho	d	
CHEMICAL TESTING							
Sulphur Dioxide (SO ₂)		<4	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO2)	<6.5	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm)	or PM ₁₀	46	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	9	60	μg/m³	USEPA CFR 40, Part 50, Appendix L		
Lead (Pb)		<0.02	1	μg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2. Jun 1999		
Carbon Monoxide (CO)		1.58	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no	.16	
Ammonia (NH ₃)		<4	400	μg/m³	AEC/C/SAP/AA-7		

Time Weighted Average TWA

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

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AMRIENT ATRICULALITY MONTTOPING DEPORT

Sample ID: AA/09/21/0550	Report No.: AA/09/21/0550	ort No.: AA/09/21/0550 Re			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	al Airport,			
Sample Collected by	Laboratory	Sample Description/ Type	Ambient	Air	
Sampling Location	Project Office Sahar	Date-Sampling	27/09/20	021 to 28/09/2021	
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	29/09/20	021	
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/20)21	
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/20	021	
Sampling Equipment ID	AEC/TH/RDS-02	Calibration Certificate No	ECL/AEC 21/FLOW	The second second	

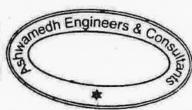
Me	eteorole	ogical Da	ta / Envi	ronme	ntal Conditions	
Average Wind velocity 9.7 km/h	9.7 km/h S-E				Temperature (Max./Min.):29/26°C	Duration of Survey 24 h
Parameter			NAAQS # 2009	Unit	Metho	d
Chemical Testing; Gro	up: Atmos	pheric Pollut	ion; Subgroup	: Ambien	t Air Quality, Meteorolo	gical Parameters
Sulphur Dioxide (SO ₂)		5.06	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017	
Nitrogen Dioxíde (NO ₂)		10.7	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm) o	r PM ₁₀	33	100	µg/m³	IS 5(82 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) of	r PM _{2.5}	6	60	µg/m³	USEPA CFR 40, Part 50, Appendix L	9.4
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jun 1999	
Carbon Monoxide (CO)		1.81	4	mg/m³	CPCB Guidelines. 37/2012-13, Page no	.16
Ammonia (NH ₃)		<4	400	µg/m³	AEC/C/SAP/AA-7	

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide.

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Sample ID: AA/09/21/0551	Report No.: AA/09/21/0551	1	Report Date 05/1			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	al Airport,	-			
Sample Collected by	Laboratory	Sample Description/ Type	Ambient	Air		
Sampling Location	MLCP Santacruz (T1)	Date-Sampling	27/09/20	021 to 28/09/2021		
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	29/09/20	021		
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/20	021		
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/20	021		
Sampling Equipment ID	AEC/TH/RDS-03	Calibration Certificate No	ECL/AEC			

Me	eteorolog	gical Da	ata / Envi	ronme	ntal Conditions			
Average Wind velocity Wind Di 9.9 km/h S-		ion	Relative Humi (Max./ Min.):7		Temperature (Max./Min.):30/28°C	Duration of Survey 24 h		
Parameter		Results	NAAQS # 2009	Unit	Method			
Chemical Testing; Gro	up: Atmosph	neric Pollu	tion; Subgroup	: Ambient	t Air Quality, Meteorolo	gical Parameters		
Sulphur Dioxide (SO ₂) 4			80	µg/m³	IS 5182 (Part 2): 2001, RA 2017			
Nitrogen Dioxide (NO ₂)		10.7	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017			
Particulate Matter (size less than 10 µm) o	or PM10	48	100	μg/m³	IS 5182 (Part 23): 2006, RA 2017			
Particulate Matter (size less than 2.5µm) of	or PM _{2.5}	10	60	μg/m³	USEPA CFR 40, Part 50, Appendix L			
Lead (Pb)		<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 6 3.2, Jun 19			
Carbon Monoxide (CO)		1.89	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no	16		
Ammonia (NH ₃)		<4	400	μg/m³	AEC/C/SAP/AA-7			

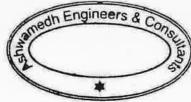
TWA

Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

Report No.: AA/09/21/0552	International Airport Ltd.				
Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	al Airport,				
Laboratory	Sample Description/ Type	Ambient	Air		
OWC Kurla	Date-Sampling	27/09/20	021 to 28/09/2021		
PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	29/09/20	021		
As per method reference	Date-Start of Analysis	29/09/20	021		
W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	05/10/20	05/10/2021		
AEC/TH/RDS-04	Calibration Certificate No	ECL/AEC 21/FLOW			
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra. Laboratory OWC Kurla PM ₁₀ ,Lead: 1 x 3 no. filter paper PM ₂₅ : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder As per method reference W.O. No. 4600005756 dated 08.07.2021	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra. Laboratory OWC Kurla PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder As per method reference W.O. No. 4600005756 dated 08.07.2021 Date-Completion of Analysis	Mumbai International Airport Ltd. Chatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra. Laboratory OWC Kurla PM ₁₀ , Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder As per method reference W.O. No. 4600005756 dated 08.07.2021 Date-Completion of Analysis Calibration Certificate No. Calibration Certificate No.		

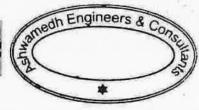
M	eteorol	ogical C	Data / Env	ironme	ental Conditions			
Average Wind velocity Wind Di 11 km/h S-			Relative Hum (Max./ Min.):7		Temperature (Max./Min.):30/28°C	Duration of Survey 24 h		
Parameter		Results	NAAQS# 2009	Unit	Method			
Chemical Testing; Gr	oup: Atmo	spheric Poll	ution; Subgrou	ıp: Ambie	nt Air Quality, Meteorol	ogical Parameter:		
Sulphur Dioxide (SO₂)		5.32	80	µg/m³	IS 5182 (Part 2): 2001, RA 2017			
Nitrogen Dioxide (NO ₂)		11	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017			
Particulate Matter (size less than 10 µm)	or PM ₁₀	36	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017			
Particulate Matter (size less than 2.5µm)	or PM _{2.5}	7	60	µg/m³	USEPA CFR 40. Part 50. Appendix L			
Lead (Pb)	4	<0.02	- 1	μg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun			
Carbon Monoxide (CO)		1.44	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.	16		
Ammonia (NH ₃)		<4	400	μg/m³	AEC/C/SAP/AA-7	1 1 1 1		

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

Ninad Soundankar

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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Sample ID: AA/09/21/0553	Report No.: AA/09/21/0553			
Name & Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1B, Santacruz (E), Mumbai-400099, Maharashtra.	al Airport,		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient	Air
Sampling Location	Sarvoday Hospital (Ghatkopar)	Date-Sampling	27/09/2	021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ ,Lead: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder	Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per method reference	Date-Start of Analysis	29/09/2	021
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date-Completion of Analysis	04/10/2	021
Sampling Equipment ID	AEC/TH/RDS-05	Calibration Certificate No	ECL/AEC	

Me	eteorolo	ogical Da	ita / Envi	ronme	ntal Conditions			
Average Wind velocity 10.2 km/h	Wind Dire		Relative Hum (Max./ Min.):7		Temperature (Max./Min.):30/28°C	Duration of Survey 24 h		
Parameter		Results	NAAQS # 2009	Unit	Method			
Chemical Testing; Gro	oup: Atmos	pheric Pollu	tion; Subgroup	: Ambien	t Air Quality, Meteorolo	gical Parameters		
Sulphur Dioxide (SO₂)	hur Dioxide (SO ₂) 4		80	µg/m³	IS 5182 (Part 2): 2001, RA 2017			
Nitrogen Dioxide (NO ₂)		10.8	80	µg/m³	IS 5182 (Part 6): 2006, RA 2017			
Particulate Matter (size less than 10 µm) o	or PM ₁₀	35	100	µg/m³	IS 5162 (Part 23): 2006, RA 2017			
Particulate Matter (size less than 2.5µm) o	or PM _{2.5}	9	60	µg/m³	ÚSEPA CFR 40. Part 50. Áppendix L			
Lead (Pb)	18 e	<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun 19			
Carbon Monoxide (CO)		1.9	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no	.16		
Ammonia (NH₃)		<4	400	µg/m³	AEC/C/SAP/AA-7			

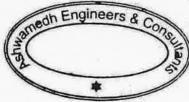
TWA

Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25, Lead and Ammonia, I hour TWA in case of Carbon Monoxide.

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Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091

Ambient Noise Quality Test Report

Ref: AESPI /I AR /N-21 /04 /58-50

Report Date:	03	/05	/2021
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Name of the client : Mumbai I			Report Date: 03/05/2021						
:									
		Chhatrapati Shivaji International Airport							
	1 St Floor, T	erminal	1B, San	tacruz	(E), Mui	nbai – 4	00099		
	Mumbai In	ternatio	nal Airp	ort					
:	Air side								
:	21/04/202	21			5				
	Climate clea	r		Ambie	ent temp	. 33°C			
:	AESPL Con	sultancy	Divisio						
:	PO 460000	5431 Da	ted 26	05/20	20				
:				THE REAL PROPERTY.	ini				
:	IS 9989: RA	2014		18.	COL.				
: Noise meter - Centre C-390 SI:190111462									
:	Calibration	details:	25/12/	2021 to	0 24/12	/2021			
							(Leg)		
	- 445	Max	Min	Avg	Max	Min	Avg		
		78.3	53.7	61.0	74.4	50.8	57.2		
		86.6	55.1	68.6	81.9	52.0	64.7		
A S	chedule II	7	5 dR(A	1,000	-				
	: : : : : : : : : : : : : : : : : : : :	: Mumbai In Chhatrapat 1st Floor, T : Mumbai In : Air side : 21/04/202 : Climate clea : AESPL Con : PO 460000 : AESPL/LAB : IS 9989: RAE : Noise mete Noise mete	: Mumbai Internatio Chhatrapati Shivaji 1 St Floor, Terminal : Mumbai Internatio : Air side : 21/04/2021 : Climate clear : AESPL Consultancy : P0 4600005431 Da : AESPL/LAB/QR/7.3.: : IS 9989: RA 2014 : Noise meter - Centr Noise meter - Centr Noise meter - Centr : Calibration details: Day Max 78.3 86.6	: Mumbai International Airr Chhatrapati Shivaji Interna 1st Floor, Terminal 1B, San : Mumbai International Airr : Air side : 21/04/2021 : Climate clear : AESPL Consultancy Division : PO 4600005431 Dated 26/2: AESPL/LAB/QR/7.3.3/R-02 : IS 9989: RA 2014 : Noise meter - Centre C-390 Noise meter - Centre C-390 Noise meter - Centre C-390 : Calibration details: 25/12/2007 Day Time (Max Min 78.3 53.7 86.6 55.1	: Mumbai International Airport Ltd. Chhatrapati Shivaji International 1st Floor, Terminal 1B, Santacruz : Mumbai International Airport : Air side : 21/04/2021 : Climate clear	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1st Floor, Terminal 1B, Santacruz (E), Mun : Mumbai International Airport : Air side : 21/04/2021 : Climate clear Ambient temp : AESPL Consultancy Division : P0 4600005431 Dated 26/05/2020 : AESPL/LAB/QR/7.3.3/R-02 : IS 9989: RA 2014 : Noise meter - Centre C-390 SI:190111464 Noise meter - Centre C-390 SI:190111464 : Calibration details: 25/12/2021 to 24/12 Day Time (Leq) Nigh Max Min Avg Max 78.3 53.7 61.0 74.4 86.6 55.1 68.6 81.9	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1st Floor, Terminal 1B, Santacruz (E), Mumbai – 4 : Mumbai International Airport : Air side : 21/04/2021 : Climate clear		

- 1. The test report shall not be reproduced except in full, without written approval of laboratory
- 2. Results relate only to the items tested
- 3. Above parameter is presently not covered under NABL scope
- 4. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



Ambient Noise Quality Test Report

Rof. AESPI /I AR/N-21/05/50-57

Report D	ate: 24	/05	/2021
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Ref: AESPL/LAB/N-21/05/50					Report Date: 24/05/2021						
Name of the client	3	Mumbai Inter		-							
		Chhatrapati Shivaji International Airport 1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099									
Name of site	:	Mumbai Inter				, Mumb	ai – 400	099			
Location	-1-	Air side	nauonai	All pol							
	:		/OE /202	1							
Monitoring date	1	11,12,17&18/	05/202	1							
Environmental condition	:	Climate clear			Ambie	nt temp	. 33°C				
Monitored by		AESPL Consul									
Project/ Job number	:	PO 46000054			27.04.2	21					
Reference of sampling		AESPL/LAB/Q		R-02		u.					
Method of sampling	:	IS 9989: RA 2	014		4						
Instrument used	:	Noise meter - Centre C-390 SI:190111462									
		Noise meter -	Centre (C-390 SI	:19011	1464					
Calibration status	:	Calibration de	tails: 25	/12/20	21 to 2	4/12/2	021	4.			
Location	V		Day	Time (l	Leg)	Nigh	t Time	(Leq)			
Location			Max	Min	Avg	Max	Min	Avg			
Air side Cargo gate 4D			82.2	52.3	65.5	74.6	49.0	60.3			
Air side CMD Civil store	"1		91.9	46.1	59.3	75. 7	46.9	55.5			
Air side Gate No-6 T-2		100	82.8	62.0	71.1	75.2	57.3	69.5			
Air side Runway west 27		No. of the last of	97.6	46.2	64.5	94.5	49.2	63.3			
Air side STP T-1		Tile.	87 .6	49.7	73.0	79.6	53.5	63.9			
Air side Runway 14 end			87.9	52.7	69.1	97.4	52.1	66.1			
Air side CCR 2	-18		80.8	45.3	54.4	71.2	42.0	48.2			
Air side Lima 8 Apron			92.1	49.4	70.1	93.6	54.7	63.2			
Limiting Standards as per	EPA	Schedule II	7	5 dB(A) III SAFE		70 dB(A)			

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Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/05/5	3-61		Report Date: 24/05/2021						
Name of the client	:	The state of the s							
		Chhatrapati Shivaji International Airport 1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099							
Name of the	4	1 St Floor, Teri	minal 1B	, Santa	cruz (E)), Mumb	ai – 400	1099	
Name of site	:	Mumbai Inter	national	Airpor	t				
Location		Air side							
Monitoring date	1	10-11/05/20	21						
Environmental condition		Climate clear			Ambie	ent temp	. 33°C		
Monitored by		AESPL Consul	ltancy Di	vision		-			
Project/ Job number		PO 46000054	31; Amd	03 dtd	27.04.	21			
Reference of sampling	:	AESPL/LAB/QI							
Method of sampling		IS 9989: RA 2	014	. 3	FI IN IS	San			
Instrument used	:	Noise meter -	Centre C	-390 SI	:19011	1462			
		Noise meter -							
Calibration status	:	Calibration de	tails: 25	/12/20	21 to 2	4/12/2	021		
Location				Time (1		Night Time (Leq)			
			Max	Min	Avg	Max	Min	Avg	
Project Office (Andheri Sahar)	62		81.7	51.3	58.3	68.3	50.7	54.9	
OWC (Kurla)	179		83.8	56.3	62.5	85.5	51.9	58.8	
Sarvoday Hospital, Ghatkoper			81.3	45.8	55.1	71.6	42.6	47.9	
Land side-MLCP (Santacruz)			83.1	62.9	72.3	78.5	57.5	70.0	
Limiting Standards as per l	EPA	Schedule II	7	5 dB(A		The second	70 dB(A		

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- 2. Results relate only to the items tested
- 3. The results apply to the sample as received.



Chetan A Kadam (Authorized Signatory - Pollution & Environment) -End of Test Report-



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



Ambient Noise Quality Test Report

Ref: AESPL/LAB/N-21/06/103-110 Report Date: 02/07/2021

Name of the client	1.		rnational Airport Ltd						
Name of the chefit									
			Shivaji International Airport						
Name of site			1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099 Mumbai International Airport						
Location	T:	Air side	national	Mipoi					
Monitoring date	:	21,22,23&24	/06/202	1	_				
Environmental condition	1:	Climate clear	00,202		Amhie	nt temp	29°C		
Monitored by	1	AESPL Consu	ltancy Di	vision	7 minore	in temp	. <u> </u>		
Project/ Job number	:	PO 46000054			27.04.2	21			
Reference of sampling	:	AESPL/LAB/Q	R/7.3.3/I	R-02	No.				
Method of sampling	:	IS 9989: RA 2	014	11/1					
Instrument used	: Noise meter - Centre C-390 SI:190111462								
		Noise meter -	Centre (C-390 SI	:19011	1464			
Calibration status	:	Calibration de	tails: 25	/12/20	21 to 2	4/12/2	021		
Location			Day	Time (l	Leq)	Nigh	t Time	(Leg)	
and the second			Max	Min	Avg	Max	Min	Avg	
Air side Cargo gate 4D	. P.		89.5	54.0	73.8	88.9	64.7	74.7	
Air side CMD Civil store			88.6	49.9	62.3	71.8	43.8	57.2	
Air side Gate No-6 T-2	-1		89.5	59.1	66.3	84.3	56.3	63.7	
Air side Runway west 27			90.5	48.8	63.6	78.2	51.5	58.5	
Air side STP T-1		N TIME	92.7	46.9	60.0	89.8	43.8	54.9	
Air side Runway 14 end		The same of	78 .8	53.5	59.3	73.6	45.9	52.2	
Air side CCR 2		II. TROUBLE	93.9	57.9	64.6	94.5	62.8	63.9	
Air side Lima 8 Apron	E WE		81.1	51.8	63.6	79.2	51.8	61.9	
Limiting Standards as per l	EPA	Schedule II	7	5 dB(A	Vicenza		70 dB(A)	

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- 3. The results apply to the sample as received.
- 4. Decision Rule is applied.



Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



Ambient Noise Quality Test Report

Ref : AESPL/LAB/N-21/06/111-112	Report Date: 02/07/2021
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Ref: AESPL/LAB/N-21/06/11	T-1					t Date: 02/07/2021			
Name of the client	:		Mumbai International Airport Ltd						
		Chhatrapati Shivaji International Airport							
		1 St Floor, Terr	ninal 1B	, Santa	cruz (E)), Mumb	ai - 400	099	
Name of site	:	Mumbai Inter	national	Airpor	t				
Location		Air side							
Monitoring date	1	24/06/2021							
Environmental condition	:	Climate clear			Ambie	ent temp	. 29°C		
Monitored by		AESPL Consul	tancy Di	vision		T T			
Project/ Job number	:	PO 46000054	31; Amd	03 dtd	27.04.	21			
Reference of sampling	:	AESPL/LAB/QI	R/7.3.3/F	R-02	180				
Method of sampling		IS 9989: RA 20	014		10.30	Du.			
Instrument used		Noise meter -	Centre C	-390 SI	:19011	1462			
		Noise meter -	Noise meter - Centre C-390 SI:190111464						
Calibration status	:	Calibration de	tails: 25	/12/20	21 to 2	4/12/2	021		
Location			Day	Time (Leq)	Nigh	t Time	(Leq)	
Emiliar Section (¥.,		Max	Min	Avg	Max	Min	Avg	
Project Office (Andheri Sahar)			83.5	61.6	70.0	77.5	63.0	68.8	
OWC (Kurla)	-15		85.8	55.1	62.3	80.7	55.4	59.0	
Limiting Standards as per l	EPA	Schedule II	7	5 dB(A	100		70 dB(A)	

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- 3. The results apply to the sample as received.



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(Authorized Signatory - Pollution & Environment)





NOTSE LEVEL MEASURMENT REPORT

Sample ID: (1) N/07/21/0563 (2) N/07/21/0564 (3) N/07/21/0565 (4) N/07/21/0566 (5) N/07/21/0567	Report No.: (1) N/07/21/0563 (2) N/07/21/0564 (3) N/07/21/0565 (4) N/07/21/0566 (5) N/07/21/0567		Report Date	03/08/2021	
(6) N/07/21/0568 (7) N/07/21/0569 (8) N/07/21/0570 (9) N/07/21/0571 (10) N/07/21/0572	(6) N/07/21/0568 (7) N/07/21/0569 (8) N/07/21/0570 (9) N/07/21/0571 (10) N/07/21/0572			03,00,2021	
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	mational Airport,			
Monitoring Done By	Laboratory	Sample Description/Type		ent Noise: p: Atmospheric on)	
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring		28/07/2021 to 29/07/2021	
Calibration Certificate	YEA(C)/ 201128A/A1129/001 Instrument Mod		SLM 1	699	
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	20160	83735	

Sr No	Location	(6 a	Day Time (6 a.m. to 10 p.m.) dB (A)		(10	Night Tim p.m. to 6 dB (A)	Method	
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1.	Runway 27 End	68.0	65.2	71.1	67.1	65.7	68.3	
2.	STP Terminal 1	65.8	64.2	66.8	66.5	65.7	67.8	
3.	CCR-2	66.3	61.4	68.3	65.7	63.3	67.5	1
4.	Adani Airport Noise (Apron Control)	68.5	64.5	71.3	64.8	62.1	66.6	CPCB Protocol for Ambient Level Noise
5.	6 No Gate (Sahar)	72.1	63.7	74.8	72.3	70.1	73.9	Monitoring July 2015
6.	Lima 88	68.7	66.6	70.1	69.6	67.1	71.2	AEC/C/SAP/SAM/35 8
7.	Runway 14 End	68.8	63.3	71.9	61.5	59.7	64.5]
8.	Project Office (Sahar)	65.9	60.9	68.3	63.9	60.3	67.1	
9.	Cargo 4D	70.2	64.4	73.4	69.8	66.6	72.0	
10.	OWC Kurla	67.9	63.3	71.2	65.0	62.6	66.7	
		5.00		Limit				
	As per t	he Environ	ment (Pro	otection) F	Rules, 198	36, Schedu	ıle-I	211 22
	-1-1			f lead	to in dR (A)	Man		

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

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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







NOISE LEVEL MEASURMENT REPORT

Sample ID: N/08/21/0349	Report No.: N/08/21/0349	Report Date	31/08/2021	
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra	national Airport,		
Monitoring Done By	Laboratory	Sample Description/Typ		ent Noise: p: Atmospheric on)
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring		/2021 to /2021
Calibration Certificate	YEA(C)/ 201128A/A1129/002	Instrument Model	SLM 1	699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID 201608		083651

		(6	Day Time AM-10PM dB (A)		(Night Tim 10PM -6A dB (A)	Method	
		Leq	Lmin	Lmax	Leq	Lmin	Lmax	
1	Runway 27 End	67.0	64.3	68.7	64.1	63.5	65.5	
2	STP Terminal 1	65.7	63.7	67.0	64.8	63.5	67.7	,
3	CCR-2	66.3	61.19	68.14	64.4	62.7	66.3	
4	Adani Airport Noise (Apron Control)	67.4	64.6	69.6	64.2	61.8	66.2	CPC8 Protocol for Ambient Level Noise Manitoring, July 2015
5	6 No Gate (Sahar)	69.0	62.7	73.1	63.4	60.9	65.0	AEC/C/SAP/SAM/35 E 36
6	Lima 8	67.4	66.2	68.6	64.8	63.1	66.3	
7	Runway 14 End	67.6	64.1	69.6	61.3	59.7	63.4	
8	Project Office (Sahar)	64.9	60.9	68.0	62.9	60.0	65.6	
9	Cargo 4D	68.1	64.7	69.4	64.5	62.5	66.1]
10	OWC Kurla	66.4	61.1	69.3	64.0	62.5	64.8	20

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

Limits in dB (A) weighted scale

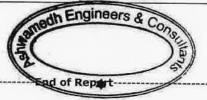
Day (6 a.m. to 10 p.m.) Night (10 p.m. to 6

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

Airport (Busy Airport) 70 65

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Note:

Serial Number

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







NOISE LEVEL MEASURMENT REPORT

Sample ID: N/09/21/0556	Report No.: N/09/21/0556	Report Date	01/10/2021	
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Inte 1st Floor, Terminal 1B, Santacru: Mumbai-400099 Maharashtra	rnational Airport,		3 3
Monitoring Done By	Laboratory	Sample Description/Typ		ent Noise: p: Atmospheric on)
Order Reference	W.O. No. 4600005756 dated 08.07.2021	Date of Monitoring	27/09 28/09	/2021 to /2021
Calibration Certificate	YEA(C)/ 201128A/A1129/002	Instrument Model	SLM 1	699
Consent Number & Date.	Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018	Instrument ID	20160	83651

Sr No	Location	Location Day Time (6AM-10PM) dB (A)				Night Tim 10PM -6A dB (A)	Method		
_		Leq	Lmin	Lmax	Leq	Lmin	Lmax		
1	Runway 27 End	66.6	62.8	69.7	64.3	63.7	65.1		
2	STP Terminal 1	65.8	63.9	68.7	64.7	63.1	66.3		
3	CCR-2	66.4	62.4	68.4	64.3	61.5	66.5		
4	Adani Airport Noise (Apron Control)	67.4	64.3	69.8	64.0	62.5	65.4	CPC8 Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SAP/SAM/35 & 36	
5	6 No Gate (Sahar)	68.5	63.5	70.0	63.3	60.3	65.2		
6	Lima 8	67.6	65.0	69.4	64.9	63.1	66.4		
7	Runway 14 End	67.7	65.0	70.0	62.2	60.4	63.2		
8	Project Office (Sahar)	65.5	61.4	68.7	63.6	62.1	65.0		
9	Cargo 4D	67.4	65.0	69.4	64.3	63.2	66.1		
10	OWC Kurla	65.8	61.2	68.7	64.5	63.2	65.1		

Limit

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

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

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





Note:

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





Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**Recognized by **MoEFCC** as "Environmental Laboratory" valid up to 08.07.2021 **Laboratory**: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/0	2/93		Report Date: 27/02/2021			
Name of the client	:	Mumbai International Airport Ltd				
H		Chhatrapati Shivaji Internat				
		1 St Floor, Terminal 1B, Sant	acruz (E), Mumbai – 400099			
Name of site	1	Mumbai International Airpo	ort			
Date of sampling	:	17/02/2021				
Date of receipt	:	19/02/2021				
Date of analysis	1:	19/02/2021				
Monitored by	•	AESPL Consultancy Division	1			
Project/ Job number	:	PO 4600005431 dt 26.05.20				
Reference of sampling		AESPL/LAB/F/G-31				
Method of sampling		AESPL/LAB/SOP/ST-01	linear I			
		Stack Details				
Stack identification	:	DG 1 Alfa 1(1010 KVA)	TOVE THE			
Fuel used	:	HSD				
Stack diameter (m)	:	0.20				
Cross-sectional area (m²)	:	0.031				
Stack height (m)		30				
Meti	hod	of analysis and Equipment	details			
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method			
Sampling equipment		PEM SMK Sr. No-4519				
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021			
		Emission Details				
Parameter		Result of analysis	Limiting Standard as per consent			
Gas Temperature (°C)	:	134	**************************************			
Gas Velocity (m/sec)		9.68				
Gas Flow Rate (Nm³/hr)		801.36				
Particulate Matter(mg/Nm³)		54.9 150				
Sulphur Dioxide (Kg/Day)		0.86	(Long)			
NOx (ppm)		13.5	100			

Note:

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- 2. Results relate only to the items tested
- 3. Above test parameter is presently not covered under NABL scope



Chetan A Kadam

(Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/94	Report Date: 27/02	/2021

Ker. No: AESPL/LAB/S1-Z1/UZ	194		Report Date: 27/02/2021				
Name of the client		Mumbai International Airport Ltd					
		Chhatrapati Shivaji Internati	ional Airport				
		1 St Floor, Terminal 1B, Santa	cruz (E), Mumbai – 400099				
Name of site	1	Mumbai International Airpo	rt				
Date of sampling	:	17/02/2021					
Date of receipt	:	19/02/2021					
Date of analysis	:	19/02/2021					
Monitored by	1	AESPL Consultancy Division					
Project/ Job number		PO 4600005431 dt 26.05.20	20				
Reference of sampling	:	AESPL/LAB/F/G-31					
Method of sampling		AESPL/LAB/SOP/ST-01	and the same of th				
	Silp.	Stack Details					
Stack identification	:	DG 2 Alfa 1 (625 KVA)	11 - 12 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Fuel used	:	HSD	The state of the s				
Stack diameter (m)	:	0.20					
Cross-sectional area (m²)		0.031					
Stack height (m)	:	30					
Meth	od	of analysis and Equipment (details				
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method				
Sampling equipment	1	PEM SMK Sr. No-4519	7				
Calibration status	:	Calibrated on 23/10/2020 Cali	bration due on 22/10/2021				
A STATE OF THE PARTY OF THE PAR		Emission Details					
Parameter		Result of analysis	Limiting Standard as per consent				
Gas Temperature (°C)	1	144					
Gas Velocity (m/sec)		8.88					
Gas Flow Rate (Nm³/hr)		717.02	23				
Particulate Matter(mg/Nm³)	1	57.5					
Sulphur Dioxide (Kg/Day)	:	0.77	0.77				
NOx (ppm)	:	15.6	100				

Note:

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Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/95 Report	t Date: 27	/UZ	/2021
---------------------------------------	------------	-----	-------

RCI. NO. MESI E/ LIND/ST 21/02	100		tepore Duter Di Jour Dour	
Name of the client	:	Mumbai International Airpo	rt Ltd	
		Chhatrapati Shivaji Internati		
		1 St Floor, Terminal 1B, Santa	cruz (E), Mumbai – 400099	
Name of site		Mumbai International Airpo	rt	
Date of sampling		17/02/2021	3	
Date of receipt	1	19/02/2021		
Date of analysis	i	19/02/2021		
Monitored by	:	AESPL Consultancy Division	7	
Project/ Job number		PO 4600005431 dt 26.05.20	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	1	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG 3 Alfa 1 (1010 KVA)	1 A 1 A	
Fuel used	:	HSD		
Stack diameter (m)	:	0.20		
Cross-sectional area (m²)	:	0.031		
Stack height (m)	:	30	C SULF REPORT	
Meth	od	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519	- 1	
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021	
		Emission Details	The same of the sa	
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	131		
Gas Velocity (m/sec)	:	9.25		
Gas Flow Rate (Nm³/hr)		771.46	-	
Particulate Matter(mg/Nm³)		49.8	150	
Sulphur Dioxide (Kg/Day)	:	0.95	12 A 1 1	
NOx (ppm)	1	11.4	100	

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02		CEMISSION Quarty Test Rep	Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpo		
		Chhatrapati Shivaji Internat	ional Airport	
			acruz (E), Mumbai – 400099	
Name of site	:	Mumbai International Airpo	ort	
Date of sampling	:	17/02/2021		
Date of receipt	:	19/02/2021		
Date of analysis	:	19/02/2021		
Monitored by	;	AESPL Consultancy Division		
Project/ Job number	1	PO 4600005431 dt 26.05.20	020	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG 4 Alfa 1 (2500 KVA)		
Fuel used	:	HSD		
Stack diameter (m)	i	0.20		
Cross-sectional area (m²)	:	0.031		
Stack height (m)	:	30		
Metl	od	of analysis and Equipment	details	
Method of analysis		IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519	100	
Calibration status		Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021	
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	154	***	
Gas Velocity (m/sec)	:	10.67		
Gas Flow Rate (Nm³/hr)	1	841.50	La 134	
Particulate Matter(mg/Nm³)	1	53.5	150	
Sulphur Dioxide (Kg/Day)	:	0.91		
NOx (ppm)	:	12.5	100	

Note:

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/0		k Emission Quality Test Re	Report Date: 27/02/2021	
Name of the client	1:	Mumbai International Airp		
	1077	Chhatrapati Shivaji Interna		
			tacruz (E), Mumbai – 400099	
Name of site	1:	Mumbai International Airp		
Date of sampling	1:	17/02/2021		
Date of receipt		19/02/2021		
Date of analysis		19/02/2021		
Monitored by	:	AESPL Consultancy Divisio	n	
Project/ Job number	:	PO 4600005431 dt 26.05.2		
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling		AESPL/LAB/SOP/ST-01	ML_	
		Stack Details	San State of the San St	
Stack identification	1:	DG 1 CCR 1 (750 KVA)	1	
Fuel used	:	HSD		
Stack diameter (m)	3	0.20		
Cross-sectional area (m ²)		0.031		
Stack height (m)	:	30		
Met	hod	of analysis and Equipment	details	
Method of analysis		IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Ca	libration due on,22/10/2021	
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)		113		
Gas Velocity (m/sec)		10.38		
Gas Flow Rate (Nm³/hr)		906.06		
Particulate Matter(mg/Nm³)		51.0	150	
Sulphur Dioxide (Kg/Day)	:	0.84		
NOx (ppm)	:	16.6	100	
	11 2 2			

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	2/97	7	Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpo	ort Ltd	
		Chhatrapati Shivaji Internat	•	
X			acruz (E), Mumbai – 400099	
Name of site	:	Mumbai International Airpo	ort	
Date of sampling	:	17/02/2021		
Date of receipt	:	19/02/2021		
Date of analysis	:	19/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number		PO 4600005431 dt 26.05.20	020	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG 2 CCR 1 (750 KVA)		
Fuel used	:	HSD		
Stack diameter (m)	:	0.20		
Cross-sectional area (m ²)	:	0.031		
Stack height (m)	:	30		
Meth	od	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment	1	PEM SMK Sr. No-4519	The state of the s	
Calibration status		Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021	
		Emission Details	Table 1	
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	117		
Gas Velocity (m/sec)	:	10.44		
Gas Flow Rate (Nm³/hr)	11:	901.40	11	
Particulate Matter(mg/Nm³)	:	48.7	150	
Sulphur Dioxide (Kg/Day)	:	0.83	- Table 101 1 700	
NOx (ppm)	:	12.5	100	

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-End of Test Report-



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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL	/LAB	/ST-21	/02/	/99	Report Date: 27	/02	/2021

Kel. NO: AESPL/LAB/S1-21/02	195	<u> </u>	Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpo		
		Chhatrapati Shivaji Internati		
		1 St Floor, Terminal 1B, Santa		
Name of site	:	Mumbai International Airpo	rt	
Date of sampling	:	17/02/2021	K	
Date of receipt	:	19/02/2021		
Date of analysis	:	19/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.20	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01	L.	
		Stack Details		
Stack identification	:	DG 1 CCR 2 (500 KVA)		
Fuel used	:	HSD	Lucia and the	
Stack diameter (m)	:	0.20		
Cross-sectional area (m²)	:	0.031		
Stack height (m)	1	30		
Meth	od	of analysis and Equipment o	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 8	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status		Calibrated on 23/10/2020 Cali	bration due on 22/10/2021	
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	119		
Gas Velocity (m/sec)		9.99		
Gas Flow Rate (Nm³/hr)		858.82	War TW	
Particulate Matter(mg/Nm³)		53.5	150	
Sulphur Dioxide (Kg/Day)	1	0.79	A STATE OF THE PARTY OF THE PAR	
NOx (ppm)	:	14.5	100	

Note:

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	/10		Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpor		
		Chhatrapati Shivaji Internati		
		1 St Floor, Terminal 1B, Santa		
Name of site	:	Mumbai International Airpor	rt _	
Date of sampling	:	17/02/2021		
Date of receipt	:	19/02/2021		
Date of analysis	:	19/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.202	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01		
		Stack Details	The same of the sa	
Stack identification	:	DG 2 CCR 2 (625 KVA)	TO THE REAL PROPERTY.	
Fuel used	:	HSD		
Stack diameter (m)	:	0.20		
Cross-sectional area (m²)	:	0.031		
Stack height (m)	:	30		
Meth	od	of analysis and Equipment d	letails	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 8	& EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Calib	bration due on 22/10/2021	
		Emission Details	Talles	
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	139		
Gas Velocity (m/sec)		8.95		
Gas Flow Rate (Nm³/hr)		732.06		
Particulate Matter(mg/Nm³)		44.1	150	
Sulphur Dioxide (Kg/Day)	:	0.68	The second second	
NOx (ppm)	:	11.4	100	

Note:

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Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/0	2/10)2	Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpo	ort Ltd	
		Chhatrapati Shivaji Interna		
		1 St Floor, Terminal 1B, Sant	acruz (E), Mumbai - 400099	
Name of site	1	Mumbai International Airpo	ort	
Date of sampling	:	18/02/2021		
Date of receipt		20/02/2021	_	
Date of analysis		20/02/2021		
Monitored by	1	AESPL Consultancy Division	1	
Project/ Job number	:	PO 4600005431 dt 26.05.20		
Reference of sampling		AESPL/LAB/F/G-31		
Method of sampling		AESPL/LAB/SOP/ST-01		
		Stack Details	CH2 la.	
Stack identification		DG-1 Utility T-2 (3000 KVA		
Fuel used	1:	HSD		
Stack diameter (m)	:	0.50		
Cross-sectional area (m ²)		0.196		
Stack height (m)	:	31		
Met	hod	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021	
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	145	The second	
Gas Velocity (m/sec)	1	14.26		
Gas Flow Rate (Nm³/hr)		7180.81	Ba	
Particulate Matter(mg/Nm³)		49.9	150	
Sulphur Dioxide (Kg/Day)	:	3.32		

Note:

NOx (ppm)

1. The test report shall not be reproduced except in full, without written approval of laboratory

15.6

100

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	2/10		Report Date: 27/02/2021	
Name of the client	:	Mumbai International Airpoi		
		Chhatrapati Shivaji Internati		
		1 St Floor, Terminal 1B, Santa		
Name of site	:	Mumbai International Airpoi	rt	
Date of sampling	:	18/02/2021		
Date of receipt	:	20/02/2021		
Date of analysis	;	20/02/2021		
Monitored by	:	AESPL Consultancy Division	4	
Project/ Job number	:	PO 4600005431 dt 26.05.203	20	
Reference of sampling	3	AESPL/LAB/F/G-31		
Method of sampling	1	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG-2 Utility T-2 (3000 KVA)		
Fuel used	:	HSD		
Stack diameter (m)	:	0.50		
Cross-sectional area (m²)	:	0.196		
Stack height (m)	:	31	and the same of th	
Meth	od	of analysis and Equipment o	letails	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 8	& EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Cali	bration due on 22/10/2021	
The state of the s		Emission Details	THE COURSE OF STREET	
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)		147	0	
Gas Velocity (m/sec)		13.77		
Gas Flow Rate (Nm³/hr)		6903.93	- Di	
Particulate Matter(mg/Nm³)	0.0	46.5	150	
Sulphur Dioxide (Kg/Day)	:	3.19		
NOx (ppm)	10	13.5	100	

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02			Report Date: 27/02/2021
Name of the client	:	Mumbai International Airpo	
		Chhatrapati Shivaji Internat	
			acruz (E), Mumbai – 400099
Name of site	1	Mumbai International Airpo	ort
Date of sampling	1	18/02/2021	
Date of receipt	:	20/02/2021	
Date of analysis	;	20/02/2021	
Monitored by	:	AESPL Consultancy Division	
Project/ Job number	:	PO 4600005431 dt 26.05.20	020
Reference of sampling	:	AESPL/LAB/F/G-31	
Method of sampling	:	AESPL/LAB/SOP/ST-01	
		Stack Details	
Stack identification	:	DG-3 Utility T-2 (3000 KVA)	
Fuel used	:	HSD	The state of the s
Stack diameter (m)	:	0.50	Talental Control of the Car
Cross-sectional area (m²)	:	0.196	
Stack height (m)	:	31	
Meth	od	of analysis and Equipment	details
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method
Sampling equipment	:	PEM SMK Sr. No-4519	
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021
		Emission Details	1000
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)	1	146	**************************************
Gas Velocity (m/sec)		14.19	
Gas Flow Rate (Nm³/hr)		7130.48	100
Particulate Matter(mg/Nm³)		42.4	150
Sulphur Dioxide (Kg/Day)	:	4.39	The same of the sa
NOx (ppm)		15.6	100

Note:

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Chetan A Kadam (Authorized Signatory - Pollution & Environment)



Name of the client

Stack height (m)

Ref. No: AESPL/LAB/ST-21/02/105

ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091

Stack Emission Quality Test Report

: Mumbai International Airport Ltd

Report Date: 27/02/2021

	.111.	Chhatrapati Shivaji International Airport		
		1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099		
Name of site		Mumbai International Airport		
Date of sampling	:	18/02/2021		
Date of receipt	1:	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.2020		
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling		AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG-4 Utility T-2 (3000 KVA)		
Fuel used	:	HSD		
Stack diameter (m)	:	0.50		
Cross-sectional area (m2)	:	0.196		

N. Parketter	lethod of analysis and Equipment details
Method of analysis	: IS 11255 (Part 1,2,3) -1985 & EPA Method
Sampling equipment	: PEM SMK Sr. No-4519
Calibration status	: Calibrated on 23/10/2020 Calibration due on 22/10/2021
	Emission Details

31

Emission Details			
Parameter		Result of analysis	Limiting Standard as per consent
Gas Temperature (°C)		145	**************************************
Gas Velocity (m/sec)		14.16	
Gas Flow Rate (Nm3/hr)	550	7133.41	73
Particulate Matter(mg/Nm³)	1	48.0	150
Sulphur Dioxide (Kg/Day)		4.39	
NOx (ppm)	: 1	13.5	100

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Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	2/10	08	Report Date: 27/02/2021	
Name of the client	:	Chhatrapati Shivaji International Airport		
		1 St Floor, Terminal 1B, Santa	acruz (E), Mumbai – 400099	
Name of site	:	Mumbai International Airpo	rt	
Date of sampling	:	18/02/2021		
Date of receipt	:	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.20	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01	and a second	
		Stack Details		
Stack identification		DG 1 Inteck power House Ca	argo 500 KVA	
Fuel used	:	HSD		
Stack diameter (m)	:	0.30		
Cross-sectional area (m²)		0.071		
Stack height (m)	:	10		
Meth	od	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment	:	PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021		
		Emission Details		
Parameter		Result of analysis Limiting Standard as consent		
Gas Temperature (°C)	:	144		
Gas Velocity (m/sec)	:	14.61		
Gas Flow Rate (Nm³/hr)	TA T	2655.43		
Particulate Matter(mg/Nm³)		49.5	150	
Sulphur Dioxide (Kg/Day)	:	2.04	Charles and a second	
NOx (ppm)	:	14.5	100	

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Chetan A Kadam

(Authorized Signatory - Pollution & Environment)



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Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02/				
Name of the client	:	: Mumbai International Airport Ltd Chhatrapati Shivaji International Airport		
		1 St Floor, Terminal 1B, Santa		
Name of site	:	Mumbai International Airpor	rt	
Date of sampling	:	18/02/2021		
Date of receipt	:	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.20	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG-5 Utility T-2 (3000 KVA)		
Fuel used	:	HSD	THE STATE OF THE S	
Stack diameter (m)	:	0.50		
Cross-sectional area (m ²)	:	0.196		
Stack height (m)	:	31		
Meth	od	of analysis and Equipment (details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021		
		Emission Details		
Parameter	U	Result of analysis Limiting Standard consent		
Gas Temperature (°C)	:	146		
Gas Velocity (m/sec)		14.32	<u>-</u>	
Gas Flow Rate (Nm3/hr)		7194.40		
Particulate Matter(mg/Nm³)		44.1	150	
Sulphur Dioxide (Kg/Day)	:	4.43		
NOx (ppm)	140	15.6	100	

Note:

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Chetan A Kadam
(Authorized Signatory - Pollution & Environment)
-End of Test Report-



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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/0	2/10	07 Report Date: 27/02/2021		
Name of the client	*	Mumbai International Airport Ltd Chhatrapati Shivaji International Airport 1 St Floor, Terminal 1B, Santacruz (E), Mumbai – 400099		
Name of site	:	Mumbai International Airport		
Date of sampling	:	18/02/2021		
Date of receipt	:	20/02/2021		
Date of analysis	1:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.2020		
Reference of sampling		AESPL/LAB/F/G-31		
Method of sampling	1/:	AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG-6 Utility T-2 (3000 KVA)		
Fuel used		HSD		
Stack diameter (m)	:	0.50		
Cross-sectional area (m ²)		0.196		
Stack height (m)	:	31		
Met	hod	of analysis and Equipment details		
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method		
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Calibration due on 22/10/2021		
		Emission Details		
Parameter		Result of analysis Limiting Standard as per consent		
Gas Temperature (°C)	:	147		

Note:

NOx (ppm)

Gas Velocity (m/sec)

Gas Flow Rate (Nm3/hr)

Particulate Matter(mg/Nm³)

Sulphur Dioxide (Kg/Day)

1. The test report shall not be reproduced except in full, without written approval of laboratory

14.64

7336.27

46.6

4.52

12.5

150

100

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1



Chetan A Kadam (Authorized Signatory - Pollution & Environment)



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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	2/11	1	Report Date: 27/02/2021	
Name of the client		Chhatrapati Shivaji International Airport		
		1 St Floor, Terminal 1B, Santa	acruz (E), Mumbai – 400099	
Name of site		Mumbai International Airpo	rt	
Date of sampling	:	18/02/2021		
Date of receipt	1	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.20	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01	E. appa	
		Stack Details		
Stack identification	:	DG Import cold zone Cargo !	500 KVA	
Fuel used	:	HSD		
Stack diameter (m)	:	0.30		
Cross-sectional area (m²)	:	0.071		
Stack height (m)		10		
Metl	nod	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method	
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021	
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	143		
Gas Velocity (m/sec)		14.35		
Gas Flow Rate (Nm³/hr)	18	2614.26		
Particulate Matter(mg/Nm³)	:	46.1	150	
Sulphur Dioxide (Kg/Day)	:	1.61		
NOx (ppm)	:	12.5	100	

Note:

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Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Stack Emission Quality Test Report

Ren Hollingt By Briby 51 21/02			Report Butter 27 / 02/2021	
Name of the client	:	Chhatrapati Shivaji International Airport		
			acruz (E), Mumbai – 400099	
Name of site	:	Mumbai International Airpo	ort	
Date of sampling		18/02/2021		
Date of receipt	:	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division	1	
Project/ Job number	1	PO 4600005431 dt 26.05.20	020	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling	:	AESPL/LAB/SOP/ST-01	Name of the last o	
		Stack Details	1400	
Stack identification	:	DG 2 Import warehouse 62.5 KVA		
Fuel used	:	HSD	The state of the s	
Stack diameter (m)	1	0.30		
Cross-sectional area (m ²)	:	0.071		
Stack height (m)	:	10		
Meth	od	of analysis and Equipment	details	
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method		
Sampling equipment	:	PEM SMK Sr. No-4519		
Calibration status		Calibrated on 23/10/2020 Calibration due on 22/10/2021		
		Emission Details		
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	145		
Gas Velocity (m/sec)	1	14.26		
Gas Flow Rate (Nm³/hr)	18	2585.09	-1	
Particulate Matter(mg/Nm³)		47.3	150	
Sulphur Dioxide (Kg/Day)	:	1.59		
NOx (ppm)	:	10.4	100	

Note:

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Kel. NO: AESPL/LAB/51-21/02	/10	19	eport Date: 27/02/2021		
Name of the client	:	Mumbai International Airpor			
		Chhatrapati Shivaji Internatio	onal Airport		
		1 St Floor, Terminal 1B, Santa	cruz (E), Mumbai – 400099		
Name of site	:	Mumbai International Airpor	t		
Date of sampling		18/02/2021			
Date of receipt	:	20/02/2021			
Date of analysis	:	20/02/2021			
Monitored by	:	AESPL Consultancy Division			
Project/ Job number	:	PO 4600005431 dt 26.05.202	20		
Reference of sampling	:	AESPL/LAB/F/G-31			
Method of sampling		AESPL/LAB/SOP/ST-01	L.		
	F	Stack Details			
Stack identification	:	DG 2 Inteck power House Car	DG 2 Inteck power House Cargo 437 KVA		
Fuel used	:	HSD			
Stack diameter (m)	:	0.30			
Cross-sectional area (m²)		0.071			
Stack height (m)	:	10			
Meth	od	of analysis and Equipment d	letails		
Method of analysis	: IS 11255 (Part 1,2,3) -1985 & EPA Method				
Sampling equipment	12	PEM SMK Sr. No-4519			
Calibration status	:	Calibrated on 23/10/2020 Cali	bration due on 22/10/2021		
		Emission Details			
Parameter		Result of analysis	Limiting Standard as per consent		
Gas Temperature (°C)	:	142			
Gas Velocity (m/sec)	-20	14.00			
Gas Flow Rate (Nm³/hr)		2557.00	la 23		
Particulate Matter(mg/Nm³)	160	45.1	150		
Sulphur Dioxide (Kg/Day)	:	1.97			
NOx (ppm)		11.4	100		

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Report Date: 27/02	:/2021
į	Report Date: 27/02

Rel. NO: AESPL/LAB/51-21/02	/11	.0	eport Date: 2//02/2021	
Name of the client	:	Mumbai International Airpor		
		Chhatrapati Shivaji Internati	onal Airport	
		1 St Floor, Terminal 1B, Santa	cruz (E), Mumbai – 400099	
Name of site	:	Mumbai International Airpor	rt	
Date of sampling	:	18/02/2021	h.	
Date of receipt	:	20/02/2021		
Date of analysis	:	20/02/2021		
Monitored by	:	AESPL Consultancy Division		
Project/ Job number	:	PO 4600005431 dt 26.05.202	20	
Reference of sampling	:	AESPL/LAB/F/G-31		
Method of sampling		AESPL/LAB/SOP/ST-01		
		Stack Details		
Stack identification	:	DG 3 Inteck power House Cargo 625 KVA		
Fuel used	:	HSD		
Stack diameter (m)	1	0.30		
Cross-sectional area (m ²)	:	0.071		
Stack height (m)	:	10	The same of the sa	
Meth	od	of analysis and Equipment o	letails	
Method of analysis	:			
Sampling equipment		PEM SMK Sr. No-4519		
Calibration status	:	Calibrated on 23/10/2020 Cali	bration due on 22/10/2021	
		Emission Details	100	
Parameter		Result of analysis	Limiting Standard as per consent	
Gas Temperature (°C)	:	140		
Gas Velocity (m/sec)		14.27		
Gas Flow Rate (Nm³/hr)	:	2618.75		
Particulate Matter(mg/Nm³)	7	47.5	150	
Sulphur Dioxide (Kg/Day)	:	2.02	and the same	
NOx (ppm)	30	15.6	100	

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Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/02	/11	3 R	Report Date: 27/02/2021						
Name of the client	:	Mumbai International Airpor	t Ltd						
		Chhatrapati Shivaji Internati							
		1 St Floor, Terminal 1B, Santa	cruz (E), Mumbai – 400099						
Name of site	:	Mumbai International Airpor	Mumbai International Airport						
Date of sampling	:	18/02/2021							
Date of receipt	:	20/02/2021							
Date of analysis	:	20/02/2021							
Monitored by	:	AESPL Consultancy Division							
Project/ Job number		PO 4600005431 dt 26.05.202	20						
Reference of sampling	:	AESPL/LAB/F/G-31							
Method of sampling		AESPL/LAB/SOP/ST-01							
	En.	Stack Details							
Stack identification	:	DG 3 Import warehouse 125 KVA							
Fuel used	:	HSD							
Stack diameter (m)		0.30							
Cross-sectional area (m²)		0.071							
Stack height (m)		10							
Meth	ıod	of analysis and Equipment o	letails						
Method of analysis	:	IS 11255 (Part 1,2,3) -1985 & EPA Method							
Sampling equipment		PEM SMK Sr. No-4519							
Calibration status	:	Calibrated on 23/10/2020 Cali	bration due on 22/10/2021						
		Emission Details							
Parameter		Result of analysis	Limiting Standard as per consent						
Gas Temperature (°C)	:	145							
Gas Velocity (m/sec)		14.53							
Gas Flow Rate (Nm3/hr)		2634.64							
Particulate Matter(mg/Nm³)	1/1	45.1	150						
Sulphur Dioxide (Kg/Day)	:	1.62							
NOx (ppm)	ig:	13.5	13.5						

Note:

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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Stack Emission Quality Test Report

Ref. No: AESPL/LAB/ST-21/03	2/11	.4	Report Date: 27/02/2021							
Name of the client	:	Mumbai International Airpo	rt Ltd							
		Chhatrapati Shivaji Internat								
		1 St Floor, Terminal 1B, Santa	acruz (E), Mumbai – 400099							
Name of site	1:	Mumbai International Airpo	Mumbai International Airport							
Date of sampling	:	19/02/2021								
Date of receipt	:	20/02/2021								
Date of analysis	:	20/02/2021								
Monitored by	:	AESPL Consultancy Division								
Project/ Job number	:	PO 4600005431 dt 26.05.20	020							
Reference of sampling	:	AESPL/LAB/F/G-31								
Method of sampling	:	AESPL/LAB/SOP/ST-01								
		Stack Details								
Stack identification	:	DG GA Terminal 125 KVA								
Fuel used	:	HSD								
Stack diameter (m)		0.30	Figure 1							
Cross-sectional area (m ²)		0.071								
Stack height (m)	:	10								
Met	hod	of analysis and Equipment	details							
Method of analysis	:	IS 11255 (Part 1,2,3) -1985	& EPA Method							
Sampling equipment		PEM SMK Sr. No-4519								
Calibration status	:	Calibrated on 23/10/2020 Cal	ibration due on 22/10/2021							
A STATE OF THE PARTY OF THE PAR		Emission Details								
Parameter		Result of analysis	Limiting Standard as per consent							
Gas Temperature (°C)	1	93								
Gas Velocity (m/sec)	.30	12. 79								
Gas Flow Rate (Nm³/hr)		2648.00								
Particulate Matter(mg/Nm³)		42.4	150							
Sulphur Dioxide (Kg/Day)		2.04								

Note:

NOx (ppm)

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15.6

100

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Sewage Water Quality Test Report

Ref. No.: AESPL/L	AB/W-21/04/107			Issue Date: 29/04/2021	
Name of Client		:	Mumbai Internatio	nal Airport Ltd	
				i International Airport	
			1 St Floor, Terminal	1B, Santacruz (E)	
			Mumbai – 400099		
Name of site		3 0	Mumbai Internatio	nal Airport	
Nature of sample		:	Sewage Water		
Location of sampl		:	STP Inlet -Termina	12	
Sample identifica		:	W- 21/04/107		
Sample Quantity		:	F -1 l; PE	P. Control of the Con	
Environmental Co	ondition	1	Area: Clean Water	Temp.: 27°C Amb. Temp: 31°C	
Date of sample drawn			21/04/2021		
Date of sample receipt			22/04/2021		
Date of sample analysis		:	22/04/2021 - 27/	04/2021	
Sample drawn by		:	AESPL Consultancy Division		
Sample transported by			AESPL Consultancy Division		
Project/ Job num		:	PO 4600005431 Dated 26/05/2020		
Reference of sam		:	AESPL/LAB/QR/7.		
	ng & preservation	1	AESPL/LAB/SOP/7		
	ameter		Result	Method of analysis	
No.		F		ALC: UNITED STATE OF THE PARTY	
1. pH@25°C	TRACT		7.42	APHA-2017(4500H+-B)	
2. SS, mg/l	STORES TO STORE ST	. 1	74	APHA-2017(2540-D)	
3. COD, mg/l			200	APHA-2017(5220-B)	
4. BOD, mg/l			75	IS-3025 (Part 44) RA2019	
5. Residual C	hlorine, mg/l	N	_ 0.68	APHA-2017(4500Cl-B)	
6. Oil & Greas	se, mg/l	-	< 2.0	APHA-2017(5520-B)	

BOD-@ 27°C for 3 days

Note:

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- 3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
- 4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



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Tel: 02192 252008, **CIN**: U74999MH2001PTC132091

Sewage Water Quality Test Report

COLU	ton fillor by brib; vi bij o ij	100							
Nam	Name of Client			Mum	bai International	Airport Ltd			
	×			Chha	Chhatrapati Shivaji International Airport				
				1 St Floor, Terminal 1B, Santacruz (E)					
				Mum	bai – 400099				
Nam	e of site		:	Mum	bai International	Airport			
Natu	ire of sample		:	Sewa	ige Water				
Loca	tion of sample		:	STP (Outlet -Terminal	2-RO Outlet			
Sam	ple identification number			W- 2	1/04/108				
Sam	ple Quantity & Container		:	F-11	; PE				
Envi	ronmental Condition			Area	: Clean Water Te	mp.: 26°C Amb. Temp : 31°C			
Date	of sample drawn	100		21/0	4/2021	A			
Date	of sample receipt			22/0	22/04/2021				
Date	of sample analysis		:	22/04/2021 - 27/04/2021					
Sample drawn by			(10.0)	AESPL Consultancy Division					
Sam	Sample transported by			AESPL Consultancy Division					
Proj	ect/ Job number		:	PO 4600005431 Dated 26/05/2020					
Refe	rence of sampling		:	AESPL/LAB/QR/7.3.3/R-02					
Meth	od of sampling & preserv	ation	:	AESP	L/LAB/SOP/7.3.1	/W-01			
Sr.	Parameter	Re	su	lt	Consent &	Method of analysis			
No.	100				GSR1265(E)	100			
				and the same of th	limits	0.00			
1.	pH@25°C	7.52			6.5 to 9.0	APHA-2017(4500H+-B)			
2.	SS, mg/l	10			< 50	APHA-2017(2540-D)			
3.	COD, mg/l	20			< 100	APHA-2017(5220-B)			
4.	BOD, mg/l	8.0			< 30	IS-3025 (Part 44) RA2019			
5.	Residual Chlorine, mg/l	0.	64		< 1.0	APHA-2017(4500Cl-B)			
6.	Oil & Grease, mg/l	< 2.0				APHA-2017(5520-B)			

BOD-@ 27°C for 3 days

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

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- 3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



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Sewage Water Quality Test Report

Ref. N	Io.: AESPL/LAB/W-21/04/109			Issue Date: 29/04/2021		
Name	of Client	:	Mumbai Internatio	onal Airport Ltd		
			Chhatrapati Shivaj	i International Airport		
			·	l 1B, Santacruz (E)		
			Mumbai – 400099	8		
Name	of site		Mumbai Internatio	onal Airport		
Natur	e of sample	:	Sewage Water			
	ion of sample	1	STP Inlet -Cargo			
	le identification number	:	: W- 21/04/109			
	le Quantity & Container	12	: F-1l; PE			
	onmental Condition	1	Area: Clean Water	Temp.: 26°C Amb. Temp: 31°C		
	of sample drawn		21/04/2021			
	of sample receipt		22/04/2021			
Date of sample analysis			22/04/2021 – 27/04/2021			
Sample drawn by			AESPL Consultancy Division			
	le transpo rted by	:	AESPL Consultancy Division			
	ct/ Job number		PO 4600005431 D			
	ence of sampling		AESPL/LAB/QR/7.			
	od of sampling & preservation		AESPL/LAB/SOP/7			
Sr.	Parameter		Result	Method of analysis		
No.	12/20			The state of the s		
1.	pH@25°C		7.50	APHA-2017(4500H+-B)		
2.	SS, mg/l		68	APHA-2017(2540-D)		
3.	COD, mg/I	*	100	APHA-2017(5220-B)		
4.	BOD, mg/l		55	IS-3025 (Part 44) RA2019		
5.	Residual Chlorine, mg/l		0.64	APHA-2017(4500Cl-B)		

BOD-@ 27°C for 3 days

Oil & Grease, mg/l

Note:

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< 2.0

APHA-2017(5520-B)

- 2. Results relate only to the items tested.
- 3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
- 4. The results apply to the sample as received.



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Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192

Sewage Water Quality Test Report

Reti Non ALSI E/LAD/ W-Z1/04/110		133de Date: 27/04/2021
Name of Client	:	Mumbai International Airport Ltd
		Chhatrapati Shivaji International Airport
		1 St Floor, Terminal 1B, Santacruz (E)
		Mumbai – 400099
Name of site		Mumbai International Airport
Nature of sample		Sewage Water
Location of sample	:	STP Outlet -Cargo
Sample identification number	:	W- 21/04/110
Sample Quantity & Container	:	F -1 l; PE
Environmental Condition		Area: Clean Water Temp.: 25°C Amb. Temp: 31°C
Date of sample drawn		21/04/2021
Date of sample receipt	:	22/04/2021
Date of sample analysis	:	22/04/2021 - 27/04/2021
Sample drawn by		AESPL Consultancy Division
Sample transported by	:	AESPL Consultancy Division
Project/ Job number	1	PO 4600005431 Dated 26/05/2020
Reference of sampling		AESPL/LAB/QR/7.3.3/R-02
Method of sampling & preservation		AESPL/LAB/SOP/7.3.1/W-01
Sr Parameter F	Pesii	It Consent & Method of analysis

Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.40	6.5 to 9.0	APHA-2017(4500H+-B)
2.	SS, mg/l	22	< 50	APHA-2017(2540-D)
3.	COD, mg/l	60	< 100	APHA-2017(5220-B)
4.	BOD, mg/l	22	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	< 1.0	APHA-2017(4500Cl-B)
6.	Oil & Grease, mg/l	< 2.0		APHA-2017(5520-B)

BOD-@ 27°C for 3 days

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

Note:

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- 3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



Sewage Water Quality Test Report

Name of client		:	Mumbai International Airport Ltd.		
			Chhatrapati Shivaji International Airport		
			1 St Floor, Terminal 1B, Santacruz (E),		
			Mumbai - 400099		
Nam	e of site	:	Santacruz (E)		
Natu	ire of sample		STP		
Loca	tion of sample	:	Cargo - Inlet		
Sam	ple identification number	:	M-21/05/80		
Sample Quantity & Container			100 ml; PG		
Environmental Condition		:	Water is turbid Ambient temperature: 31°C		
Date of sample collection			12/05/2021		
Date	of sample receipt	:	13/05/2021		
Date of sample analysis		:	14/05/2021 - 17/05/2021		
Sam	ple drawn by		AESPL Consultancy Division		
Sam	ple transported by		AESPL Consultancy Division		
Proj	ect/ Job number	:	4600005431; Amd 03 dtd 27.04.21		
Refe	rence of sampling		AESPL/LAB/F/G-31		
Metl	nod of sampling & preservation		AESPL/LAB/SOP/M-01		
Sr.			Method		
No.	Parameter	R	Result of analysis		
1	Fecal Coliforms MPN/100ml		APHA- 23 rd edition 2017 (9221E-2)		

Note:

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- 3. The results apply to the sample as received.



Pranali N. Patil (Authorized Signatory - Microbiology)



Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**Recognized by **MoEFCC** as **"Environmental Laboratory"** valid up to 24.04.2024 **Laboratory**: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, **CIN**: U74999MH2001PTC132091



Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/05/54 **Issue Date**: 20/05/2021

Rel. N	10.: AESPL/LAB/W-21/05/54			188ue Date: 20/03/2021	
Name	of Client	:	Mumbai Internatio	onal Airport Ltd	
			Chhatrapati Shivaj	i International Airport	
			1 St Floor, Terminal	l 1B, Santacruz (E)	
	2		Mumbai - 400099		
Name	e of site	:	Mumbai Internatio	onal Airport	
Natur	re of sample		Sewage Water		
Locat	ion of sample	:	STP Inlet -Termina	al 2	
Samp	le identification number	:	W- 21/05/54		
Samp	le Quantity & Container	:	F -1 l; PE		
Envir	onmental Condition		Area: Clean Water	Temp.: 27°C Amb. Temp: 31°C	
Date	of sample drawn	:	12/05/2021		
Date	of sample receipt	:	13/05/2021		
Date	of sample analysis		13/05/2021 - 18/05/2021		
Samp	le drawn by		AESPL Consultancy Division		
Samp	le transported by	:	AESPL Consultancy Division		
Proje	ct/ Job number	:	PO 4600005431 Dated 26/05/2020		
Refer	ence of sampling		AESPL/LAB/QR/7.3.3/R-02		
Meth	od of sampling & preservation	:	AESPL/LAB/SOP/7		
Sr.	Parameter		Result	Method of analysis	
No.	THE RESERVE TO SERVE THE PARTY OF THE PARTY		and the same of th	The state of the s	
1.	pH@25°C		7.30	APHA-2017(4500H+-B)	
2.	SS, mg/l		68	APHA-2017(2540-D)	
3.	COD, mg/l	1	250	APHA-2017(5220-B)	
4.	BOD, mg/l		85	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l		0.66	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l		< 2.0	IS-3025 (Part 39) RA2019	
	The state of the s				

BOD-@ 27°C for 3 days

Note:

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- 4. The results apply to the sample as received.



Reshma S. Patil (Authorized Signatory – Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

APHA-2017(4500Cl-B)

IS-3025 (Part 39) RA2019

Sewage Water Quality Test Report

ker, n	NO.: AESPL/LAB/W-Z1/US/	55			13	ssue Date: 20/03/2021	
Nam	e of Client		:		bai International		
						ternational Airport	
				1 St Fl	oor, Terminal 1B	, Santacruz (E)	
					bai – 400099		
Nam	e of site			Mum	bai Internationa	Airport	
Natu	ire of sample			Sewa	ige Water		
Loca	ition of sample		:	STP (Outlet -Terminal	2-RO Outlet	
Sam	ple identification number		:	W- 2	1/05/55		
Sam	ple Quantity & Container		1:	F -1 l; PE			
Envi	Environmental Condition			Area: Clean Water Temp.: 26°C Amb. Temp: 31°C			
Date	Date of sample drawn		•	12/05/2021			
Date	e of sample receipt	2 P 1		13/05/2021			
Date	e of sample analysis		:	13/05/2021 - 18/05/2021			
Sam	ple drawn by		:	AESF	AESPL Consultancy Division		
Sam	ple transported by		**	AESF	L Consultancy D	ivision	
Proj	ect/ Job number		:	PO 4600005431 Dated 26/05/2020			
Refe	erence of sampling		:	AESP	L/LAB/QR/7.3.3	/R-02	
Metl	hod of sampling & preserva	ation	:	AESF	L/LAB/SOP/7.3.3	l/W-01	
Sr.	Parameter	Re	su	lt	Consent &	Method of analysis	
No.	100				GSR1265(E)	7000	
	A AMERICA			Line	limits		
1.	pH@25°C	6	6.93		6.5 to 9.0	APHA-2017(4500H+-B)	
2.	SS, mg/l	1	22	1	< 50	APHA-2017(2540-D)	
3.	COD, mg/l	1	20		< 100	APHA-2017(5220-B)	
4.	BOD, mg/l	8	3 . Õ	181	< 30	IS-3025 (Part 44) RA2019	
					Constant of the Constant of th	and the second s	

BOD-@ 27°C for 3 days

Residual Chlorine, mg/l

Oil & Grease, mg/l

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

< 1.0

0.62

< 2.0

Note:

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- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Sewage Water Quality Test Report

Pof No : AESDI /I AR /W-21 /05 /56 Issue Date: 20/05/2021

Ket. N	No.: AESPL/LAB/W-21/05/56			ssue Date: 20/05/2021	
Name of Client			Mumbai Internation	ial Airport Ltd	
			Chhatrapati Shivaji	International Airport	
			1 St Floor, Terminal 1	1B, Santacruz (E)	
			Mumbai – 400099		
Name	e of site	:	Mumbai Internation	nal Airport	
Natur	re of sample	:	Sewage Water		
Locat	ion of sample	:	STP Inlet -Cargo		
Samp	le identification number	1:	W- 21/05/56		
Samp	le Quantity & Container	1	F -1 l; PE		
Envir	onmental Condition	1	Area: Clean Water 1	Temp. : 26°C Amb. Temp : 31°C	
Date	of sample drawn		12/05/2021	Lau	
Date	of sample receipt		13/05/2021		
Date	of sample analysis		13/05/2021 - 18/05/2021		
Samp	le drawn by		AESPL Consultancy Division AESPL Consultancy Division PO 4600005431 Dated 26/05/2020 AESPL/LAB/QR/7.3.3/R-02		
Samp	le transported by				
Proje	ect/ Job number				
Refer	ence of sampling	:			
Meth	od of sampling & preservation	:	AESPL/LAB/SOP/7.		
Sr.	Parameter		Result	Method of analysis	
No.				NAME OF TAXABLE PARTY.	
1.	pH@25°C	F	7.32	APHA-2017(4500H+-B)	
2.	SS, mg/l		74	APHA-2017(2540-D)	
3.	COD, mg/l	8	160	APHA-2017(5220-B)	
4.	BOD, mg/l	9	65	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l		0.65	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l		< 2.0	APHA-2017(5520-B)	

BOD-@ 27°C for 3 days

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- 4. The results apply to the sample as received.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



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Recognized by MoEFCC as "Environmental Laboratory" valid up to 08.07.2021
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091

Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/05/57 Issue Date: 20/05/2021

Ref. No.: AESPL/LAB/W-21/05/57		Issue Date: 20/03/2021
Name of Client	:	Mumbai International Airport Ltd
		Chhatrapati Shivaji International Airport
		1 St Floor, Terminal 1B, Santacruz (E)
		Mumbai – 400099
Name of site		Mumbai International Airport
Nature of sample		Sewage Water
Location of sample	1	STP Outlet -Cargo
Sample identification number		W- 21/05/57
Sample Quantity & Container	:	F -1 l; PE
Environmental Condition	:	Area: Clean Water Temp.: 25°C Amb. Temp: 31°C
Date of sample drawn	:	12/05/2021
Date of sample receipt	:	13/05/2021
Date of sample analysis	:	13/05/2021 - 18/05/2021
Sample drawn by		AESPL Consultancy Division
Sample transported by	:	AESPL Consultancy Division
Project/ Job number	:	PO 4600005431 Dated 26/05/2020
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/W-01
		Mothod of analysis

Sr. No.	Parameter	Result	Consent & GSR1265(E) limits	Method of analysis
1.	pH@25°C	7.09	6.5 to 9.0	APHA-2017(4500H+-B)
2.	SS, mg/l	20	< 50	APHA-2017(2540-D)
3.	COD, mg/l	20	< 100	APHA-2017(5220-B)
4.	Transfer Land	7.6	< 30	IS-3025 (Part 44) RA2019
5.	Residual Chlorine, mg/l	0.68	< 1.0	APHA-2017(4500Cl-B)
6.		< 2.0		IS-3025 (Part 39) RA2019

BOD-@ 27°C for 3 days

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

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- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192



Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/05/83 **Issue Date:** 26/05/2021

Ref. No.: AESPL/LAB/W-21/05/83					
Name of Client			Mumbai International Airport Ltd		
			Chhatrapati Shivaj	i International Airport	
			1 St Floor, Terminal	1B, Santacruz (E)	
			Mumbai - 400099	4	
Name	of site	:	Mumbai Internatio	onal Airport	
Natur	e of sample	:	Sewage Water		
Locat	ion of sample	:	STP Inlet -Termina	al 1	
Samp	le identification number	12	W- 21/05/83		
Samp	le Quantity & Container	1	F -1 l; PE		
Envir	onmental Condition		Area: Clean Water	Temp. : 27°C Amb. Temp : 31°C	
Date	of sample drawn	1	19/05/2021		
Date	of sample receipt	(3)	20/05/2021		
Date	of sample analysis		: 20/05/2021 - 25/05/2021		
Samp	le drawn by	1	: AESPL Consultancy Division		
Samp	le transported by	. 0	AESPL Consultanc		
Proje	ect/ Job number	:	PO 4600005431 D		
Refer	ence of sampling	:	AESPL/LAB/QR/7.		
Meth	od of sampling & preservation	:	AESPL/LAB/SOP/7		
Sr.	Parameter		Result	Method of analysis	
No.					
1.	pH@25°C		6.88	APHA-2017(4500H+-B)	
2.	SS, mg/l		54	APHA-2017(2540-D)	
3.	COD, mg/l		150	APHA-2017(5220-B)	
4.	BOD, mg/l		65	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l		0.66	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l	-	< 2.0	IS-3025 (Part 39) RA2019	

BOD-@ 27°C for 3 days

Note:

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- 4. The results apply to the sample as received.



Reshma S. Patil
(Authorized Signatory - Pollution & Environment)
-End of Test Report-



Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192



IS-3025 (Part 39) RA2019

Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/05/84

Issue Date: 26/05/2021

Ref.	No.: AESPL/LAB/W-21/05/8	34	Issue Date: 26/05/2021					
Name of Client				Mumbai International Airport Ltd				
				Chhatrapati Shivaji International Airport				
				1 St Floor, Terminal 1B, Santacruz (E)				
				Mumbai – 400099				
Nam	e of site		÷	Mumbai International Airport				
Natu	ire of sample	1	:	Sewage Water				
Loca	tion of sample		10.00	STP Outlet -Terminal 1-RO Outlet				
Sam	ple identification number		•	: W- 21/05/84				
Sam	ple Quantity & Container			: F-1 l; PE				
Envi	ronmental Condition		•	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C				
Date	e of sample drawn			: 19/05/2021				
Date	e of sample receipt		:	: 20/05/2021				
Date	e of sample analysis		1	: 20/05/2021 - 25/05/2021				
Sam	ple drawn by	A X	:	: AESPL Consultancy Division				
Sam	ple transported by		:	AESPL Consultancy Division				
Proj	ect/ Job number	ox liili	:	PO 4600005431 Dated 26/05/2020				
Refe	erence of sampling		:	: AESPL/LAB/QR/7.3.3/R-02				
Metl	hod of sampling & preservat	ion	:	: AESPL/LAB/SOP/7.3.1/W-01				
Sr. No.	Parameter	Re	su	ult Consent & Method of analysis GSR1265(E) limits				
1.	pH@25°C	7.	06	6.5 to 9.0 APHA-2017(4500H+-B)				
2.	SS, mg/l	1	14	4 < 50 APHA-2017(2540-D)				
3.	COD, mg/l	2	20	APHA-2017(5220-B)				
4.	BOD, mg/l	6	8.6	8 < 30 IS-3025 (Part 44) RA2019				
5.	Residual Chlorine, mg/l	0.	.66	66 < 1.0 APHA-2017(4500Cl-B)				

BOD-@ 27°C for 3 days

Oil & Grease, mg/l

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

< 2.0

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- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)

9.E.S

ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



Sewage Water Quality Test Report

NO.: AESPL/LAB/W-Z1/U6/ZUU			Issue Date: 04/0//2021			
e of Client	:		^			
			ji International Airport			
			l 1B, Santacruz (E)			
	:	Mumbai Internatio	onal Airport			
	:	Sewage Water				
	:	STP Inlet -Termina	al 1			
	1:	W- 21/06/200	e e			
	:	F -1 l; PE				
onmental Condition	:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C				
of sample drawn	•	23/06/2021				
of sample receipt	:	26/06/2021				
of sample analysis	:	26/06/2021 - 02/07/2021				
le drawn by	:	AESPL Consultancy Division				
le transported by		AESPL Consultance	y Division			
ct/ Job number	:	PO 4600005431 A	Amd 03 Dated 27.04.2021			
ence of sampling	:	AESPL/LAB/QR/7.	3.3/R-02			
od of sampling & preservation	:	AESPL/LAB/SOP/7	7.3.1/W-01			
Parameter		Result	Method of analysis			
A THE PARTY OF THE	1		The same of the sa			
pH@25°C		6.80	APHA-2017(4500H+-B)			
SS, mg/l		62	APHA-2017(2540-D)			
	i	180	APHA-2017(5220-B)			
BOD-@ 27°C for 3 days, mg/l	10	90	IS-3025 (Part 44) RA2019			
Residual Chlorine, mg/l		0.68	APHA-2017(4500Cl-B)			
Oil & Grease, mg/l	7	< 2.0	IS-3025 (Part 39) RA2019			
	e of Client e of site e of sample ion of sample le identification number le Quantity & Container onmental Condition of sample drawn of sample receipt of sample analysis le drawn by le transported by ct/ Job number ence of sampling od of sampling & preservation Parameter pH@25°C SS, mg/l COD, mg/l BOD-@ 27°C for 3 days, mg/l Residual Chlorine, mg/l	e of Client e of site e of sample ion of sample le identification number le Quantity & Container onmental Condition of sample drawn of sample receipt of sample analysis le drawn by le transported by ct/ Job number ence of sampling od of sampling od of sampling & preservation Parameter pH@25°C SS, mg/l COD, mg/l BOD-@ 27°C for 3 days, mg/l Residual Chlorine, mg/l	## Cof Client ## Chhatrapati Shivatory ## Chhatrapati Shivatory ## Internation Sewage Water ## Internation Chhatrapati Shivatory ## Internation Chhatrapati Shivatory ## Internation Chhatrapati Shivatory ## Internation Change Water ## Internation Ch			

Note:

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- 3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
- 4. The results apply to the sample as received.



Reshma S. Patil (Authorized Signatory – Pollution & Environment)

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ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**Recognized by **MoEFCC** as **"Environmental Laboratory"** valid up to 24.04.2024 **Laboratory**: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, **CIN**: U74999MH2001PTC132091



Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/06/201 **Issue Date:** 04/07/2021

Issue Date: 04/07/2021				
:	Chhatr 1 St Floo	apati Shivaji Int or, Terminal 1B	ternational Airport	
Fraco				
			Airport	
:			1-RO Outlet	
:				
	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C			
:	: 23/06/2021			
1:	: 26/06/2021			
	: 26/06/2021 - 02/07/2021			
	: AESPL Consultancy Division			
	AESPL	Consultancy Di	vision	
	PO 460	0005431 Amd	03 Dated 27.04.2021	
	AESPL,	/LAB/QR/7.3.3/	R-02	
	AESPL,	LAB/SOP/7.3.1	/W-01	
Re	esult	Consent & GSR1265(E) limits	Method of analysis	
(6	.89	₹6.5 to 9.0	APHA-2017(4500H+-B)	
	12	< 50	APHA-2017(2540-D)	
43	20	< 100	APHA-2017(5220-B)	
(5.0	< 30	IS-3025 (Part 44) RA2019	
0	.62	< 1.0	APHA-2017(4500Cl-B)	
<	2.0	10070-1000	IS-3025 (Part 39) RA2019	
	: : : : : : : : : : : : : : : : : : :	Chhatr 1st Floo Mumbs : Mumbs : Sewag : STP Ou : W- 21/ : F-1 l; F : Area: 0 : 23/06/ : 26/06/ : 26/06/ : AESPL : PO 460 : AESPL : AESPL : AESPL : AESPL Result	: Mumbai International Chhatrapati Shivaji International 1st Floor, Terminal 1B Mumbai – 400099 : Mumbai – 400099 : Mumbai International : Sewage Water : STP Outlet -Terminal 1st W- 21/06/201 : F-1 l; PE : Area: Clean Water Terminal 1st Clean Wat	

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

Note:

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- 4. The results apply to the sample as received.
- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)

9.e.s

ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007
Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, CIN: U74999MH2001PTC132091



Sewage Water Quality Test Report

6/204 Issue Date: 04/07/2021			
:	Mumbai Internatio	onal Airport Ltd	
	Chhatrapati Shivaj	i International Airport	
	1 St Floor, Terminal	l 1B, Santacruz (E)	
	Mumbai - 400099		
	Mumbai International Airport		
:	Sewage Water		
:	STP Inlet -Termina	al 2	
:	W- 21/06/204		
1	F -1 l; PE		
:	Area: Clean Water Temp.: 27°C Amb. Temp: 31°C		
:	26/06/2021		
	26/06/2021		
:	26/06/2021 - 02/07/2021		
	AESPL Consultancy Division		
:	AESPL Consultance	y Division	
:	PO 4600005431 A	md 03 Dated 27.04.2021	
1	AESPL/LAB/QR/7.	3.3/R-02	
:	AESPL/LAB/SOP/7	7.3.1/W-01	
	Result	Method of analysis	
	The state of the	C. a.	
	7.24	APHA-2017(4500H+-B)	
	62	APHA-2017(2540-D)	
- 6	200	APHA-2017(5220-B)	
	95	IS-3025 (Part 44) RA2019	
	0.60	APHA-2017(4500Cl-B)	
	< 2.0	IS-3025 (Part 39) RA2019	
		Chhatrapati Shivaj 1 St Floor, Terminal Mumbai – 400099 : Mumbai Internation : Sewage Water : STP Inlet -Terminal : W- 21/06/204 : F -1 l; PE : Area: Clean Water : 26/06/2021 : 26/06/2021 : 26/06/2021 : 26/06/2021 : AESPL Consultance : AESPL Consultance : PO 4600005431 A : AESPL/LAB/QR/7. : AESPL/LAB/SOP/7 Result 7.24 62 200 95 0.60	

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Reshma S. Patil

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Tel: 02192 252008, CIN: U74999MH2001PTC132091



TC-7085

Sewage Water Quality Test Report

	No.: AESPL/LAB/W-21/06/205		Issue Date: 04/07/2021			
Nam	e of Client	:		ai International		
				•	ternational Airport	
				or, Terminal 1B	, Santacruz (E)	
			+	ai – 400099		
	ie of site	1		ai International	Airport	
	ire of sample	:		e Water		
Loca	ition of sample		STP O	utlet -Terminal 2	2-RO Outlet	
Sam	ple identification number		W- 21/	/06/205		
Sam	ple Quantity & Container		F-1 l; PE			
Envi	ronmental Condition		Area: Clean Water Temp.: 26°C Amb. Temp: 31°			
Date	e of sample drawn		: 26/06/2021			
Date	e of sample receipt		26/06/2021			
Date	of sample analysis	:	: 26/06/2021 - 02/07/2021			
Sam	ple drawn by	18	: AESPL Consultancy Division			
Sam	ple transported by	:	AESPL	Consultancy Di	vision	
Proj	ect/ Job number	:	PO 460	00005431 Amd	03 Dated 27.04.2021	
Refe	rence of sampling	:	AESPL	/LAB/QR/7.3.3/	R-02	
Meth	ood of sampling & preservation	:	AESPL	/LAB/SOP/7.3.1	/W-01	
Sr.	Parameter	Re	esult	Consent &	Method of analysis	
No.	700			GSR1265(E)	**100	
			Descri	limits	100	
1,	pH@25°C	6	.88	6.5 to 9.0	APHA-2017(4500H+-B)	
2.	SS, mg/l		12	< 50	APHA-2017(2540-D)	
3.	COD, mg/l	- 1	20	< 100	APHA-2017(5220-B)	
4.	BOD@ 27°C for 3 days, mg/l	1	6.2	< 30	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l	0	.64	< 1.0	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l	_ <	2.0	- Paular	IS-3025 (Part 39) RA2019	

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

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- 5. Decision Rule is applied.



Reshma S. Patil

(Authorized Signatory - Pollution & Environment)

Testing Laboratory is certified by ISO 9001:2015&OHSAS 18001:2007 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207 Tel: 02192 252008, CIN: U74999MH2001PTC132091



Sewage Water Quality Test Report

	Io.: AESPL/LAB/W-21/06/206			Issue Date: 04/07/2021	
Name	of Client	:	Mumbai Internatio	onal Airport Ltd	
			Chhatrapati Shivaj	i International Airport	
			1 St Floor, Termina	l 1B, Santacruz (E)	
			Mumbai – 400099	<u> </u>	
Name	of site	:	Mumbai Internatio	onal Airport	
Natur	e of sample	1	Sewage Water		
Locat	ion of sample		STP Inlet -Cargo		
Samp	le identification number	:	W- 21/06/206		
Samp	le Quantity & Container	:	F -1 l; PE		
Envir	onmental Condition	:	Area: Clean Water	Temp.: 26°C Amb. Temp: 31°C	
Date o	of sample drawn		26/06/2021		
Date o	of sample receipt	:	26/06/2021		
Date o	of sample analysis	:	: 26/06/2021 - 02/07/2021		
Samp	le drawn by	:	AESPL Consultancy Division		
Samp	le transported by	:	AESPL Consultancy Division		
	ct/ Job number	:	PO 4600005431 A	md 03 Dated 27.04.2021	
	ence of sampling	:	AESPL/LAB/QR/7.		
Metho	od of sampling & preservation	:	AESPL/LAB/SOP/7		
Sr.	Parameter		Result	Method of analysis	
No.					
1.	pH@25°C		7.38	APHA-2017(4500H+-B)	
2.	SS, mg/l		112	APHA-2017(2540-D)	
3.	COD, mg/l	i	220	APHA-2017(5220-B)	
4.	BOD@ 27°C for 3 days,	1	95	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l		0.60	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l	7	< 2.0	APHA-2017(5520-B)	

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Reshma S. Patil

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Testing Laboratory is certified by **ISO 9001:2015&OHSAS 18001:2007**Recognized by **MoEFCC** as "Environmental Laboratory" valid up to 24.04.2024 **Laboratory**: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410207
Tel: 02192 252008, **CIN**: U74999MH2001PTC132091



Sewage Water Quality Test Report

Ref. No.: AESPL/LAB/W-21/06/207 **Issue Date:** 04/07/2021

	No.: AESPL/LAB/W-21/06/207	Issue Date: 04/07/2021				
Name of Client		•	Chhat 1 St Flo	oai International rapati Shivaji Int or, Terminal 1B oai – 400099	ternational Airport	
Nam	e of site	:		ai International	Airport	
Natu	re of sample	:		ge Water	•	
Loca	tion of sample	:	STP O	utlet -Cargo		
Sam	ple identification number	:	W- 21	/06/207		
Sam	ple Quantity & Container	:	F -1 l;	PE	Д	
Envi	ronmental Condition		Area:	Clean Water Te r	np.: 25°C Amb. Temp: 31°C	
Date	of sample drawn		26/06/2021			
Date	of sample receipt		: 26/06/2021			
	of sample analysis	:	26/06/2021 - 02/07/2021			
Sam	ple drawn by		: AESPL Consultancy Division			
Sam	ple transported by	:	AESPI	Consultancy Di	vision	
	ect/ Job number		PO 46	00005431 Amd	03 Dated 27.04.2021	
	rence of sampling		AESPL	/LAB/QR/7.3.3/	R-02	
Meth	od of sampling & preservation	1	AESPL	/LAB/SOP/7.3.1	/W-01	
Sr. No.	Parameter	Re	esult	Consent & GSR1265(E) limits	Method of analysis	
1.	pH@25°C,	7	.12	6.5 to 9.0	APHA-2017(4500H+-B)	
2.	SS, mg/l		28	< 50	APHA-2017(2540-D)	
3.	COD, mg/I		30	< 100	APHA-2017(5220-B)	
4.	BOD@ 27°C for 3 days, mg/l	(4)	15	< 30	IS-3025 (Part 44) RA2019	
5.	Residual Chlorine, mg/l	- 0	.68	< 1.0	APHA-2017(4500Cl-B)	
6.	Oil & Grease, mg/l	<	2.0		IS-3025 (Part 39) RA2019	

Conformity Statement: Water sample is within permissible limits prescribed by MPCBw.r.t. above mentioned tests.

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Reshma S. Patil

(Authorized Signatory - Pollution & Environment)





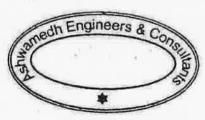
TEST REPORT

Sample ID: E/07/21/0330	Report No.: E/07/21/0330	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099,Maharashtra		0 - 2
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING			
1.	pH	7.32	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	60	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	26	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	120	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	mg/L	APHA 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL2)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-B. 4-63

Ninad Soundanier

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



-End of Report--

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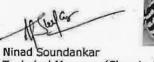




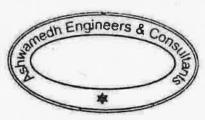
TEST REPORT

Sample ID: E/07/21/0331	Report No.: E/07/21/0331	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Outlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
CHEM:	ICAL TESTING				
1.	pH	6.75	Not Specified	K .	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	22	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	5	30	mg/L	IS 3025 (Part 44): (993, RA 2014
4.	Chemical Oxygen Demand	20	100	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as Cl2)	0.14	· 1.	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-8, 4-63



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-End of Report-----

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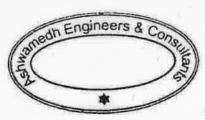
TEST REPORT

Sample ID: E/07/21/0332	Report No.: E/07/21/0332	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099,Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING			
1,	pH	6.84	_	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	56	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	58	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	210	mg/L	APHA, 237° Ed., 2017, 5220-B, 5-1B
5.	Oil & Grease	<1	mg/L	APHA 23 rd Ed., 2017. 5520-8, 5-42
6.	Free Residual Chlorine (as CL2)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-B, 4-63



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-----End of Report--

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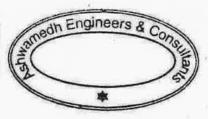
TEST REPORT

Sample ID: E/07/21/0333	Report No.: E/07/21/0333	Report Date	03/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	02/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method			
CHEM:	CHEMICAL TESTING							
1.	рН	7.67	Not Specified	æ	IS 3025 (Part II):1983, RA 2017			
2.	Total Suspended Solids	8	50	mg/L	IS 3025 (Part 17): 1984, RA 2017			
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): (993, RA 2014			
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18			
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 237 Ed., 2017, 5520-8, 5-42			
6.	Free Residual Chlorine (as CL2)	0.12	1	mg/L (ppm)	APHA. 23rd Ed., 2017. 4500-CI-B, 4-63			



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



-End of Report----

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The result isseed sample(s) and applicable parameter (s).
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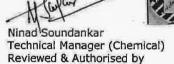


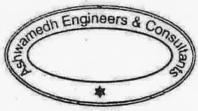


TEST REPORT

Sample ID: E/07/21/0334	Report No.: E/07/21/0334	Report Date	04/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Interi 1st Floor, Terminal 1B, Santacruzi Mumbai-400099, Maharashtra		
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	30/07/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	046050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING			
1.	pH	7		IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	63	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	75	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	260	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL2)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-B, 4-63





----End of Report--

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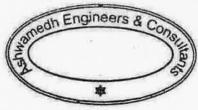


TEST REPORT

Report No.: E/07/21/0335	Report Date	04/08/2021
Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Terminal 2 STP RO Outlet	Date - Receipt of Sample	30/07/2021
2 L x 1 no. plastic can	Date - Start of Analysis	30/07/2021
W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	03/08/2021
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra Customer Terminal 2 STP RO Outlet 2 L x 1 no. plastic can W.O. No. 4600005756 dated	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra Customer Sample Description / Type Terminal 2 STP RO Outlet Date - Receipt of Sample 2 L x 1 no. plastic can Date - Start of Analysis W.O. No. 4600005756 dated Date - Completion of Analysis

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
CHEM	ICAL TESTING				
1.	pH	7.68	Not Specified		IS 3025 (Part II):1983. RA 2017
2.	Total Suspended Solids	8	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 rd Ed., 2017, 5520-R, 5-42
6.	Free Residual Chlorine (as CL2)	0.12	1	mg/L (ppm)	APHA. 23rd Ed., 2017. 4500-CI-B, 4-63





----End of Report---

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AEC/FREP/I-A Page 1 of 1





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

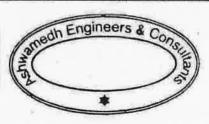
TEST REPORT

Sample ID: E/08/21/0296	Report No.: E/08/21/0296	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099,Maharashtra	national Airport,	
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Form	at 1.0/BO/CAC-Ce11/UAN No. 0000	046050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING			
1.	рН	7		IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	68	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	324	mg/L	IS 3025 (Part 44): 1993; RA 2014
4.	Chemical Oxygen Demand	1000	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-8, 4-63



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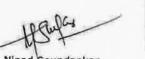


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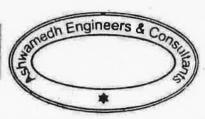
TEST REPORT

Report No.: E/08/21/0297	Report Date	31/08/2021
Chhatrapati Shivaji Maharaj Inter	national Airport,	
Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Cargo STP Outlet	Date - Receipt of Sample	26/08/2021
2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099, Maharashtra Customer Cargo STP Outlet 2 L x 1 no. plastic can W.O. No. 4600005756 dated	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099, Maharashtra Customer Sample Description / Type Cargo STP Outlet Date - Receipt of Sample 2 L x 1 no. plastic can Date - Start of Analysis W.O. No. 4600005756 dated

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
CHEM	ICAL TESTING			7	
1.	рН	7.46	Not Specified	32	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	6	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	3	30	mg/L	IS 3025 (Part 44): 1993; RA 2014
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 2374 Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	<0.05	1	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-B, 4-63



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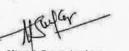


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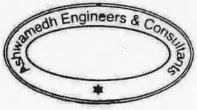
TEST REPORT

Sample ID: E/08/21/0298	Report No.: E/08/21/0298	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruzi Mumbai-400099, Maharashtra		· ·
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING		*	
1.	pH	7	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	42	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	110	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-C1-8, 4-63



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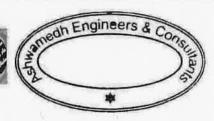
TEST REPORT

Report No.: E/08/21/0299	Report Date	31/08/2021
Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Terminal 1 STP RO Outlet	Date - Receipt of Sample	26/08/2021
2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra Customer Terminal 1 STP RO Outlet 2 L x 1 no. plastic can W.O. No. 4600005756 dated	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra Customer Sample Description / Type Terminal 1 STP RO Outlet Date - Receipt of Sample 2 L x 1 no. plastic can Date - Start of Analysis W.O. No. 4600005756 dated

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
CHEM	ICAL TESTING		***************************************		
1.	рН	7.47	Not Specified	•	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	6	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23° Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	1	mg/L (ppm)	APHA. 23rd Ed., 2017, 4500-CI-8, 4-63



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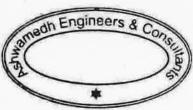
TEST REPORT

Sample ID: E/08/21/0300	Report No.: E/08/21/0300	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099,Maharashtra	national Airport,	1 P
Sample Collected by	Customer	Sample Description / Type	Untreated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Form	at 1.0/BO/CAC-Ce11/UAN No. 0000	046050/5th CAC-1811001379 Da	ted 29.11.2018

Sr. No.	Parameter	Result	Unit	Method
CHEM	ICAL TESTING			•
1.	Н	6.83	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	176	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	71	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	200	mg/L	APHA, 23 rd Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-CI-B, 4-63

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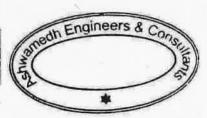
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TEST REPORT

Sample ID: E/08/21/0301	Report No.: E/08/21/0301	Report Date	31/08/2021
Name and Address of Customer	Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz Mumbai-400099,Maharashtra		, .
Sample Collected by	Customer	Sample Description / Type	Treated Sewage Effluent (Group: Pollution and Environment)
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	26/08/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	26/08/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	30/08/2021
Consent Number & Date : Forn	nat 1.0/BO/CAC-Ce11/UAN No. 00000	046050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
CHEM	ICAL TESTING		***		
1.	рН	8.14	Not Specified	*	IS 3025 (Part 11):1983, RA 2017
2.	Total Suspended Solids	7	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	2	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	10	100	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CLz)	<0.05	1	mg/L (ppm)	APHA, 23rd Ed., 2017, 4500-Cl-8, 4-63

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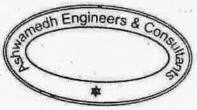
TEST REPORT

Sample ID: E/09/21/0304	Report No.: E/09/21/0304	Report Date	07/10/2021
Name and Address of Customer	Mumbai International Airport I Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruzi Mumbai-400099, Maharashtra	national Airport,	
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Cargo STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Form	at 1.0/BO/CAC-Ce11/UAN No. 00000	046050/5th CAC-1811001379 Da	ted,29.11.2018

Sr. No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Er	vironment, Su	bgroup: Was	ste Water (Sewage)
1.	рН	6.43		IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	82	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	247	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	700	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	mg/L	APHA, 23rd Ed., 2017, 4500-CI-G.4-72



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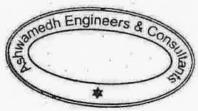
TEST REPORT

Sample ID: E/09/21/0305	Report No.: E/09/21/0305	Report Date	07/10/2021
Name and Address of Customer	Mumbai International Airport I Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz Mumbai-400099, Maharashtra	national Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Cargo STP Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Form	at 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chem	ical Testing; Group: Pollution & E	invironment,	Subgroup: Waste W	ater (Sev	vage)
1.	рН	6.68	Not Specified	•	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	6	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	23	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	70	100	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as Cl ₂)	<0.05	1	mg/L	APHA, 23rd Ed., 2017, 4500-CI-G.4-72







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AEC/FREP/1-A Page 1 of 1





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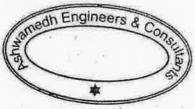
TEST REPORT

Sample ID: E/09/21/0306	Report No.: E/09/21/0306	Report Date	08/10/2021
Name and Address of Customer	Mumbai International Airport I Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz Mumbai-400099, Maharashtra	national Airport,	* *
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 1 STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	07/10/2021
Consent Number & Date : Form	at 1.0/BO/CAC-Ce11/UAN No. 00000	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Er	vironment, Su	bgroup: Was	ste Water (Sewage)
1.	Hq	6.58	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	68	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	340	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	960	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	mg/L	APHA, 23rd Ed., 2017, 4500-CI-G,4-72



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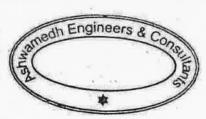
TEST REPORT

Sample ID: E/09/21/0307	Report No.: E/09/21/0307	Report Date	08/10/2021
Name and Address of Customer	Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(I Mumbai-400099,Maharashtra	ational Airport,	
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 1 STP RO Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	07/10/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 000004	46050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemi	ical Testing; Group: Pollution & E	nvironment,	Subgroup: Waste W	ater (Sev	vage)
1.	рН	6.93	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	10	50	mg/L	IS 3025 (Part 17): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	21	30	mg/L	IS 3025 (Part 44): 1993, RA 2014
4.	Chemical Oxygen Demand	90	100	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	1	mg/L	APHA. 23rd Ed., 2017, 4500-CJ-G,4-72



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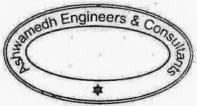
TEST REPORT

Sample ID: E/09/21/0308	Report No.: E/09/21/0308	Report Date	07/10/2021
Name and Address of Customer	Mumbai International Airport Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruzi Mumbai-400099, Maharashtra	national Airport,	F
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	Terminal 2 STP Inlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Consent Number & Date : Form	nat 1.0/BO/CAC-Ce11/UAN No. 00000	046050/5th CAC-1811001379 Da	ted.29.11.2018

Sr. No.	Parameter	Result	Unit	Method	
Chem	ical Testing; Group: Pollution & Er	nvironment, Sul	bgroup: Was	ste Water (Sewage)	
1.	Нq	6.90	-	IS 3025 (Part II):1983, RA 2017	
2.	Total Suspended Solids	78	mg/L	IS 3025 (Part 17): 1984, RA 2017	
3.	Biochemical Oxygen Demand (3 days, 27°C)	167	mg/L	IS 3025 (Part 44): 1993, RA 2014	
4.	Chemical Oxygen Demand	440	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18	
5.	Oil & Grease	<1	mg/L	APHA, 23 rd Ed., 2017, 5520-8, 5-42	
6.	Free Residual Chlorine (as CL ₂)	<0.058	mg/L	APHA, 23rd Ed., 2017, 4500-CI-G,4-72	

Ninad Soundankar Technical Manager (Chemical)





End of Report

Note:

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







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

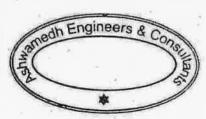
TEST REPORT

Sample ID: E/09/21/0309	Report No.: E/09/21/0309	Report Date	07/10/2021
Name and Address of Customer	Mumbai International Airport I Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz Mumbai-400099, Maharashtra	national Airport,	Y
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	Terminal 2 STP RO Outlet	Date - Receipt of Sample	29/09/2021
Sample Quantity/ Packing	2 L x 1 no. plastic can	Date - Start of Analysis	29/09/2021
Order Reference:	W.O. No. 4600005756 dated 08.07.2021	Date - Completion of Analysis	06/10/2021
Order Reference:	AND THE RESERVE OF THE PARTY OF		06/10/202

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemi	ical Testing; Group: Pollution & E	nvironment,	Subgroup: Waste W	ater (Sev	vage)
1.	рН	6.77	Not Specified	-	IS 3025 (Part II):1983, RA 2017
2.	Total Suspended Solids	48	50	mg/L	IS 3025 (Part I7): 1984, RA 2017
3.	Biochemical Oxygen Demand (3 days, 27°C)	24	30	mg/L	IS 3025 (Part 44): 1993, RÅ 2014
4.	Chemical Oxygen Demand	90	100	mg/L	APHA, 23 rd Ed., 2017, 5220-8, 5-18
5.	Oil & Grease	<1	Not Specified	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
6.	Free Residual Chlorine (as CL ₂)	<0.05	1	mg/L	APHA, 23rd Ed., 2017, 4500-CI-G,4-72







-End of Report

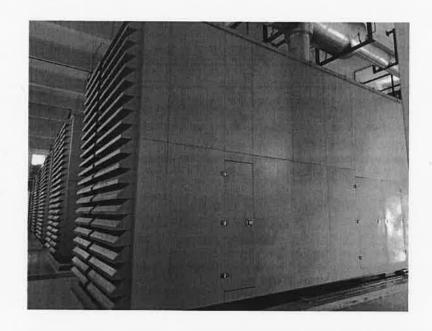
Note:

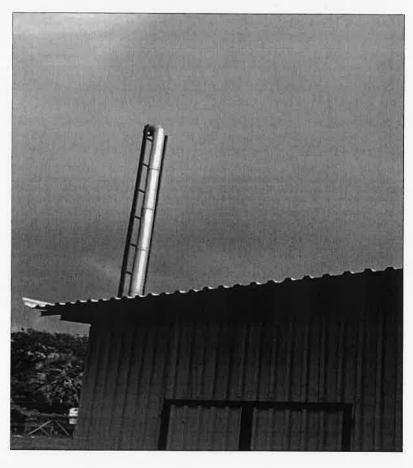
- The result listed refers only to the tested sample(s) and applicable parameter(s).
 This report is not to be reproduced except in full, without written approval of the laboratory.
- In case sampling is not done by laboratory, the results apply to the sample as received.
 There are no additions to,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



Annexure -05 of DG sets are provided with pollution control measures

Annexure – 5 DG Set Enclosures and Stack Photos









Annexure -06 Contingency plan for spills prevention.

Mumbai International Airport Ltd.

AIRSIDE OPERATIONS

AIRSIDE SAFETY

STANDARD OPERATING PROCEDURE

FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

Activity	Name	Signature Da	te
Prepared By:	Rajesh Jadhav DGM- Airside Safety	Royal de	
	Vinayak Sohani Documentation Lead.	Nado	s/
Recommended by:	Jayant Dasgupta AVP -Airside Management	J. Arri	
	Prasad Nair MR-IMS	all m	111001
Approved by	Prabhat Mahapatra EVP - Operations	Amichan 13	1/2/

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

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

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

Issue Date

: 01/04/2011 Revision Date : 11/01/2020

1.0 **PURPOSE**

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

2.0 SCOPE

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

The scope of this procedure applies to the following agencies.

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

3.0 **OBJECTIVE**

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

4.0 **RESPONSIBILITY**

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

5.0 **DEFINITIONS & ABBREVIATIONS**

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



Issue No : 04 Revision No : 04 Doc No: MIAL/AO-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 off.
- If required, do not allow any embarkation/disembarkation in case of a major spillage.
- Shall not operate any other systems/doors and equipment.
- Shall try to stop the leakage if possible from the aircraft.
- If the incident takes place during fuelling process then it shall be stopped immediately.
- Ensure that the aircraft is properly bonded / grounded.
- Shall immediately inform Apron control and concerned Ground Handling Agent about the incident.
- To place tray under the engine/aircraft whenever maintenances work is in progress. To avoid fuel/oil spill on ground.

6.3 Air Traffic Control

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

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



Page 4 of 8

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

Issue Date : 01/04/2011

Revision Date : 11/01/2020

6.4 Joint Control Centre (JCC)

Inform the following persons/organizations:

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

6.5 Airport Rescue and Fire Fighting (ARFF)

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

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

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

6.6 Apron Control

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

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

Service charges shall be levied in cases of where

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



Issue No : 04 Revision No : 04 Doc No: MIAL/AO-ASM/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 fuel.

6.9 Fueling Service Providers

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

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

6.10 Action by Airport Security Force

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





Issue No : 04 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

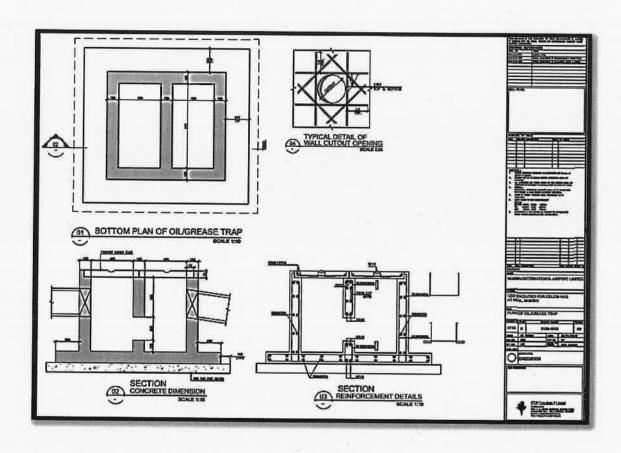
Revision Date : 11/01/2020

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 Control Center)
10/11/2015	03	6	Service charge for clearing spillage is reviewed for clarity.
11/01/2021	04	04	Para 6.2 (i) added in the SOP
11/02/2021	04	05	Para 6.6 charges for foam compound has been removed.



Annexure- 07 Oil interceptors



Annexure-08 Certificate of Green Building Platinum Rating





Confederation of Indian Industry

Indian Green Building Council (IGBC)

hereby certifies that

Mumbai International Airport Limited (T-2)

(IGBC Registration No: GEB 15 0662)

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

IGBC Green Existing Buildings Rating System

Platinum

December 2021

(This certification is valid for next 3 years)

V Suresh

v Suresu Chairman, IGBC

Medalray

K S Venkatagiri Executive Director, CII-Godrej GBC

Gurmit Singh Arora Chair, IGBC Green EB O&M Annexure -9 Letter of previous compliance report submission



Ref.: MIAL/ENV/20/20

To,

Additional PCCF, Ministry of Environment, Forest & Climate Change, Regional Office, WCZ, New Civil Lanes, Nagpur – 440 001

Kind Attn: Mr. Suresh Kumar (Scientist -D)

<u>Sub.</u>: 7th half yearly Environmental Compliance report of EC received for "Upgradation of Chhatrapati Shivaji International Airport", Mumbai by MIAL.

Ref: - Environment clearance no. 10-5/2007-IA-III dtd: 2nd June 2017, by MoEF&CC, Gol.

Dear Sir,

Reference may please be made to Environmental Clearance No. 10-5/2007-IA-III dated 2nd June 2017 for Upgradation of Chhatrapati Shivaji Maharaj International Airport (CSMIA), Mumbai, the half yearly compliance report of EC conditions and environmental quality monitoring reports for the period from June to September 2020 is given in this CD (attached herewith).

The environment quality monitoring which is carried out through MoEF&CC accredited third party laboratory, was not conducted in the months of April and June 2020 due to Novel coronavirus pandemic lockdown restrictions.

As per the MoEF&CC notification SO 5845 (E) dated 28th November 2018, we are submitting the EC compliance report and annexures in soft copy only.

Please acknowledge receipt of same.

Thanking you.

Yours faithfully,

For Mumbai International Airport Limited

Shailendra toshi

General Manager - Environment & Sustainability

Encl: CD of at half yearly Environmental compliance report.

CC: 1. Zonal office, CPCB, Vadodara

2. Regional Officer, MPCB Mumbai

Mumbai International Airport Limited

Chhatrapati Shivaji Maharaj International Airport 1st Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India

T +91 22 6685 0900 / 6685 0901 F +91 22 6685 2059 www.csia.in CIN - U45200MH2006PLC160164 ENERGY
RESOURCES
AIRPORTS
TRANSPORTATION
HOSPITALITY
LIFE SCIENCES

Annexure – 10 Environment statement Form- V for FY 20-21



Maharashtra Pollution Control Board

प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT STATEMENT-0000037907

Submitted Date

29-09-2021

PART A

Company Information

Company Name

Application UAN number

Mumbai International Airport Limited

0000046050

Address

Chhatrapati Shivaji Maharaj International Airport (CSMIA),

Plot no

1st floor, Terminal - 1

Taluka Mumbai Village Santacruz (East),

Capital Investment (In lakhs)

11132.62

Scale

City

Pincode

Large

Mumbai

400099

Person Name Dr. Ajay Mehrotra Designation

Telephone Number

Fax Number

Senior Vice President

02266850778

yes

02266850778

ajay.mehrotra@gvk.com

Region SRO-Mumbai II **Industry Category**

Industry Type

Last Environmental statement

Red

R23 Airports and Commercial Air Strips

Consent Issue Date

submitted online

Consent Number

and CAC/UAN no - 0000082458/CR-2007001672 and BO/CAC-cell/UAN No. 0000009577/1st

BO/CAC-cell/UAN-0000046050/5th CAC-18110013979 29.11.2018

CAC-1706000704

Consent Valid Upto

Establishment Year

Date of last environment statement submitted

2021-10-31

2006

Sep 28 2020 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Consent Quantity

Actual Quantity

UOM

NA

0

Nos./Y

By-product Information

By Product Name

Consent Quantity

Actual Quantity

UOM

NΑ

0

Nos./Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day				3
Water Consumption for	Consent Quar	ntity in m3/day	Actual Quantity in m3/o	lav
Process	0.00		0	,
Cooling	0.00		0	
Domestic	7100.00		2379.6	
All others	0.00		0	
Total	7100.00		2379.6	
2) Effluent Generation in CMD / MLD				
Particulars	C	onsent Quantity	Actual Quantity	иом
Sewage generation at CSMIA			1524.8	CMD
2) Product Wise Process Water Consumpt	ion (cubic meter of			
process water per unit of product)	ion (cubic meter of			
process water per unit of product) Name of Products (Production)	ion (cubic meter of	During the Previous financial Year	During the current Financial year	иом
process water per unit of product)	ion (cubic meter of		9	ИОМ
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption)		financial Year	Financial year	иом
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption per unit of product)		financial Year	Financial year	ИОМ
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption)	on of raw material	financial Year	Financial year	UOM
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption per unit of product)	on of raw material	financial Year 0.029 During the Previous	Financial year 0.078 During the current	
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption per unit of product) Name of Raw Materials	on of raw material	financial Year 0.029 During the Previous financial Year	Financial year 0.078 During the current Financial year	иом
process water per unit of product) Name of Products (Production) Water consumption per passenger 3) Raw Material Consumption (Consumption per unit of product) Name of Raw Materials	on of raw material	financial Year 0.029 During the Previous financial Year	Financial year 0.078 During the current Financial year	иом

Part-C

[A] Water Pollutants Detail		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	specified in the cor Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
ρΗ	7.1	7.1	0	8	Pollutant discharge within standard limit
Suspended Solids	23.7	19.2	0	50	Pollutant discharge within standard limit
BOD 3 days (27oC)	11.8	9.6	0	30	Pollutant discharge within standard limit
COD	25.9	21.0	0	100	Pollutant discharge within standard limit

	Pollutants discharged (kL/day)	discharged(Mg/NM3)	variation from prescribed standards with reasons			
	Quantity	Concentration	%variation	Standard		
SO2 (Kg/day)	2.1	0	0	295.2	Pollutant di within stand limit	scharge dard
Total Particulate matter (mg/Nm3)	0	48.2	0	150	Pollutant di within stand limit	scharge dard
Part-D						
HAZARDOUS WASTE	S		2			
1) From Process Hazardous Waste Ty						
nazaruous waste ry	rpe		Total During Previous Financial year	Total Duri Financial y		UOM
5.1 Used or spent oil			0	0		MT/A
5.2 Wastes or residues	containing oil		2.6	2.42		MT/A
33.1 Empty barrels /co	ntainers /liners co	ntaminated with hazardous	6.4	3.41		MT/A
			26.8	44.84		MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty	ntrol Facilities	vegetable or animal materials) uring Previous Financial year	Total During Curren 0	t Financial	year	UOM MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E	ntrol Facilities pe Total Do			t Financial	year	
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES	ntrol Facilities pe Total Do			t Financial	year	
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste	ntrol Facilities pe Total De 0					МТ/А
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics	ntrol Facilities pe Total Du 0	uring Previous Financial year	0			MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics	ntrol Facilities pe Total De 0	uring Previous Financial year	0 Total During Curren			WT/A UOM MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Paper	ntrol Facilities pe Total De 0 re Type Total De	uring Previous Financial year	Total During Curren			UOM MT/A MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Paper Waste glass bottles	ntrol Facilities pe Total De 0 re Type Total De 144 658	uring Previous Financial year	Total During Currer 117 531			UOM MT/A MT/A MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Paper Waste glass bottles Waste Plastics bottles	te Type Total De 144 658 136	uring Previous Financial year	Total During Currer 117 531 115			
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Paper Waste glass bottles Waste Plastics bottles Waste wood	re Type Total De 144 658 136 131	uring Previous Financial year	Total During Currer 117 531 115 117			UOM MT/A MT/A MT/A MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Plastics Waste Plastics bottles Waste Plastics bottles Waste wood Broken tins	re Type Total De 144 658 136 131 151	uring Previous Financial year	Total During Currer 117 531 115 117 113			UOM MT/A MT/A MT/A MT/A
23.1 Wastes or residue 2) From Pollution Co Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process	te Type Total Do 144 658 136 131 151 136	uring Previous Financial year	Total During Currer 117 531 115 117 113 108			WOM MT/A MT/A MT/A MT/A MT/A MT/A
23.1 Wastes or residue 2) From Pollution Colling Hazardous Waste Ty 0 Part-E SOLID WASTES 1) From Process Non Hazardous Waste Waste Plastics Waste Paper Waste glass bottles Waste Plastics bottles Waste wood Broken tins Other Misc. scrap	te Type Total Do 144 658 136 131 151 136 149	uring Previous Financial year	Total During Current 117 531 115 117 113 108 114			UOM MT/A MT/A MT/A MT/A MT/A

Total During Previous Financial

year

Total During Current Financial UOM

year

Concentration of Pollutants Percentage of

Pollutants Detail

Waste Type

Quantity of

Part-F

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

1) Hazardous Was	ste					
Type of Hazardou		enerate	ed	Qty of Hazardous Waste	иом	Concentration of Hazardous Waste
5.1 Used or spent oi	il			0.0	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
5.2 Wastes or residu	ues containi	ng oil		2.42	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
33.1 Empty barrels / contaminated with h			s /wastes	3.41	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
23.1 Wastes or resid or animal materials)		ade with	vegetable	44.84	MT/A	Disposed to MPCB authorized agency M/s Meher Petrochem Pvt. Ltd.
2) Solid Waste Type of Solid Waste Generated	Qty of Solid Waste	ИОМ	Concentr	ation of Solid V	/aste	
Waste plastic	117	MT/A	Segregation	azardous waste is on of the waste is CB dumping	s collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Waste paper	531	MT/A	Segregation	azardous waste is on of the waste is CB dumping	s collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Waste glass bottles	115	MT/A	Segregation	azardous waste is on of the waste is CB dumping	collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Waste plastic bottles	117	MT/A	Segregation	azardous waste is on of the waste is CB dumping	collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Waste wood	113	MT/A	Segregatio	ezardous waste is on of the waste is CB dumping	collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Waste broken tins	108	MT/A	Segregatio	azardous waste is n of the waste is B dumping	collected, being done	segregated and disposed by M/s Sharda Enterprises. e at the contractors end after the waste is disposed to
Other Misc. Scrap	114	MT/A	The non-ha Segregatio MCGM/MPC	n of the waste is	collected, being done	segregated and disposed by M/s Sharda Enterprises. at the contractors end after the waste is disposed to
Waste cotton	88	MT/A	Segregatio	ezardous waste is n of the waste is CB dumping	collected, being done	segregated and disposed by M/s Sharda Enterprises. at the contractors end after the waste is disposed to
Wet Waste	1840.7	MT/A	The non-ha Segregatio MCGM/MPC	n of the waste is $\mathfrak l$	collected, : being done	segregated and disposed by M/s Sharda Enterprises. at the contractors end after the waste is disposed to
Organic / food waste	207.3	MT/A	The non-ha Segregation MCGM/MPC	n of the waste is l	collected, s being done	segregated and disposed by M/s Sharda Enterprises. at the contractors end after the waste is disposed to

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Energy saving measures at CSMIA	0	0	0	100000	2.5	0

Part-H

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection

Environmental Protection Measures Capital Investment (Lacks)

NIL

NIL

0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

NA

NA

0.0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

NIL

Name & Designation

Senior Vice President

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000037907

Submitted On:

29-09-2021