

Ref: MIAL/ENV/22/23

1st Dec 2022

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

Dear Sir,

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

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

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

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

Thanking you.

Yours faithfully,

For Mumbai 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)

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- 2022 - September 2022

SIX MONTHLY COMPLIANCE REPORT

(Period of April to September of FY 22 -23)

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

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

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

| S.N. | Conditions | Compliance Status |
|----------|---|--|
| (A) Spec | cific Condition | PLACE THE STREET |
| (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. 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 while transfer, loading & unloading of soil and construction material. |
| (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 do not leak during transportation. 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 as per condition. |
| (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 recycling of treated water. |
| (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 manufactures recommendation. Noise level monitoring in and around airport premises is conducted regularly and are observed in 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 and being complied, restrictions are implemented. |
| (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 to authorized locations. |
| (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. |
| (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- 07 oil interceptors drawing. |

| (xvi) | The runoff from paved structures like runways, taxiways can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures. | Complied. Oil interceptors are commissioned 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. Rainwater pits are provided with coarse sand and stone aggregate filtration. |
| (xix) | Total freshwater requirement from MCGM shall not exceed from 8 MLD | Complied. Average 1.58 MLD water sourced from MCGM during the period of April-22 to Sep 22. |
| (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 1285 KLD sewage generated in FY 22-23. The treated water is fully recycled in flushing, HVAC and gardening. |
| (xxi) | Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources. | Complied. DG sets installed are having acoustic enclosures and the personnel working at airside areas are provided with adequate personnel protective equipment for noise impact such as ear plugs, earmuffs. 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. Parameters are being monitored by NABL approved third party laboratory and continuous noise & ambient air quality monitoring systems. 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 | 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 |

| | vegetable oils (from caterers) shall be carried out. | wastes are collected and stored at designated storage area and disposed-off at MPCB authorized TSDF and |
|----------|---|--|
| (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. | recyclers. 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 stage itself and at the time of replacement also energy efficient fittings are being considered. Terminal-2 is awarded with Platinum Rating Facility in existing building project category by CII. Used CFL/TFL generated will be disposed to e-waste authorized recyclers. Annexure-08 Certificate of Green Building Platinum Rating. |
| (xxvi) | An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district. | Complied. |
| (xxvii) | The concerns of the public hearing panel shall be suitably addressed to, and the recommendations adopted as part of the Environmental Management Plan and in the plan for CSR as applicable. | Complied, EMP is being implemented. various CSR initiatives in the field of health, education, women empowerment, environment, etc. are being implemented. |
| (xxviii) | A water security plan, to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the CSR activity. | Complied, MIAL has developed Rainwater harvesting facility and constructed toilets at a Zilla Parishad school catering to majorly underprivileged students in Shahapur District of Maharashtra. |
| (B) GENI | ERAL CONDITIONS | |
| (i) | The project authorities must strictly adhere to the stipulations made by the SPCB, State Government and any other statutory authority | Noted. MPCB has granted Consent to Establish vide letter no BO/CAC-cell/Format1.0/CAC/UAN No. 0000136644 /CE /2208000664 dated 15.08.2022 and conditions 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 | Noted |

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|-------|---|---|
| 4 | clearance, a fresh reference shall be made to this Ministry to assess the | |
| | adequacy of conditions imposed and to additional environmental | , i |
| | protection measures required if any. | |
| (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 | Noted and complied. Regular ambient noise monitoring is being carried out in and around airport area. Annexure -04 for Monitoring reports. |
| × | the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78dBA (daytime) and 70dBA (night-time) | |
| (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 laboratory for testing water parameters is operational and continuous ambient air and ambient noise levels are being monitored at permanently installed stations. |
| (v) | Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement to conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes. | Noted and complied, Separate budget for Environment protection measures and initiatives are allocated every year. Approx. INR 2.70 Cr were spent in FY 2021-22 for STP O&M, waste 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 29 th July 2022, refer Annexure -9 letter of previous compliance report submission. |
| (vii) | A copy of clearance letter shall be sent by the proponent to be concerned Panchayat / Zila parishad / Municipal corporation, urban local body and the local NGO, if any from whom any suggestion / representation, if any, were received while processing the proposal. The clearance letter shall also | 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. |

| | be put on the website of the company | |
|--------|--|--|
| () | the proponent. | |
| (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 | Last six-monthly compliance report submitted to Ministry/CPCB/MPCB by letter no. MIAL/ENV/22/11 dated: July 29th, 2022. Refer Annexure -09 letter of previous compliance report submission. |
| | Ministry /CPCB/SPCB shall monitor the stipulated conditions. | |
| (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 | The Environmental statement for FY 2021-22 is submitted on MPCB portal on 28 th September 2022. It is available also available on the website - https://csmia.adaniairports.com/all-reports.aspx >>Environment Compliance Report |
| 1 | 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. | Refer Annexure – 10 Environment statement Form- V for FY 21-22. |
| (x) | The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in . This shall be advertised within seven days from the date of receipt of the clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry. | Complied & communicated to MoEF&CC vide letter no MIAL/ENV/17/40 dated 13 th December 2017. |
| (xi) | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of | Noted |
| | commencing of land development work. | |
| (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. | |

Annexure - 1 Aerodrome License



GOVERNMENT OF INDIA

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

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

AERODROME LICENSE - PUBLIC USE

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

Mumbai International Airport Limited

(Name of License holder)

for

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

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

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

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

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

This Aerodrome License is not transferable.

Date of issue: 01st November 2018

New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

VALIDITY OF THE LICENSE

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

| FROM | то | SIGNATURE |
|------------------------------|--------------|--|
| 03.05.2018 | 02.05.2020 | महानिदेशक जातन Director Guneral at Civil Aviation |
| B 3 MAY 2020 | 0 2 MAY 2022 | महानिदेशक नागर विकासन भारत Director General of Civil Aviation India |
| 0 3 MAY 2022 | 0 2 MAY 2024 | महानिदेशक नागर विमानन भारत Director General of Civil Aviation India |
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Annexure - 2 Barricading practices

Annexure - 02 Barricading practices at Construction site







Annexure - 3 Construction material truck covered by impervious sheeting

Annexure -03 - Construction Material Trucks are covered with tarpaulin





Annexure - 4 Environment conditions monitoring reports





sales@ashwamedh.net +91-253-2392225

NOISE LEVEL MEASURMENT REPORT

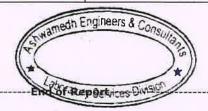
| · | I O LO LI LIL I I I I I I I I I I I I I | | | | |
|------------------------------|---|--------------------|-----------------------------|--------|--|
| Sample ID: N/04/22/1153 | Report No.: N/04/22/1153 | 26/04/2022 | | | |
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra | national Airport, | | × | |
| Monitoring Done By | Laboratory Sample Description/Type Ambient Noise | | | | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date of Monitoring | 21/04/2022 to 21/04/2022 | | |
| Calibration Certificate | 2021/08/12/05 | Instrument Model | Sound level Meter | | |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018 | Instrument ID | AEC/E | EQ/404 | |

| Sr No | Lo | cation | (| Day Time 6AM-10PI dB (A) | | | Night Tim 10PM -6A dB (A) | | Method |
|----------------------|-------------------|-------------|------------|---|-----------|---------------------------------|---------------------------------|-------|--|
| | | | Leq | Lmin | Lmax | Leq | Lmin | Lmax | |
| 1 | Runway 27 | 7 End | 65.4 | 61.9 | 68.7 | 64.4 | 62.6 | 64.8 | |
| 2 | STP Termin | nal- 1 | 66.3 | 63.2 | 68.5 | 64.4 | 62.5 | 64.8 | |
| 3 | CCR-2 | | 66.9 | 62.5 | 67.4 | 65.0 | 64.1 | 69.4 | |
| 4 | Apron Control | | 66.2 | 64.6 | 69.5 | 63.0 | 58.5 | 64.5 | 0000 |
| 5 | 6 No Gate (Sahar) | | 66.7 | 64.2 | 69.4 | 62.8 | 60.1 | 64.1 | CPCB Protocol fo Ambient Level Noise Monitoring. Jul |
| 6 | | | 67.2 | 64.5 | 69.4 | 65.1 | 63.5 | 64.9 | AEC/C/SAP/SAM/356 36 Issue no.4. Issue date |
| 7 | Runway 14 End | | 67.5 | 63.1 | 69.5 | 62.3 | 60.4 | 63.8 | 01.04.2018 |
| 8 | Project Off | ice (Sahar) | 65.4 | 63.8 | 67.4 | 63.6 | 61.5 | 64.0 | |
| 9 | Cargo 4D | | 66.4 | 63.6 | 68.5 | 63.9 | 62.2 | 64.7 | |
| 10 | OWC Kurla | | 65.7 | 60.4 | 68.7 | 63.1 | 62.5 | 64.6 | |
| | 6 | | | L | imit | | 1,, | | -51 |
| | | As Per the | e Environn | nent (Pro | tection)R | ıles, 198 | 6, Schedu | le -I | |
| Serial N | umber | 1 | Industry | | | Limits in dB (A) weighted scale | | | |
| Schartumber Bladstry | | | Day (6 | Day (6 a.m. to 10 p.m.) Night (10 p.m. to 6 | | | | | |

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Airport (Busy Airport)



Note:

112

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







Ashwamedh Engineers & Consultants 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

NOISE LEVEL MEASURMENT REPORT

| | NOISE LEVEL MEASON | | | | |
|------------------------------|---|---|-------------|---------------|--|
| Sample ID N/05/22/1042 | Report No. N/05/22/1042 | | Report Date | 01/06/2022 | |
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminai 1B, Santacruz Mumbai-400099 Maharashtra | national Airport, | | | |
| Monitoring Done By | Laboratory Sample Description/Type Ambient Noise: | | | | |
| Order Reference | W.O. No. 4600005756 dated 08.07,2021 | Date of Monitoring 26/05/2022 to 26/05/2022 | | | |
| Calibration Certificate | 2021/08/12/05 | Instrument Model | Sound | i level Meter | |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC- 1811001379 Dated.29.11.2018 | Instrument ID | AEC/E | EQ/404 | |

| Sr No | Location | | Day Time SAM-10P dB (A) | | | Night Tim LOPM -6A dB (A) | | Method |
|----------|------------------------|-----------|-------------------------------|------------|------------------|---------------------------------|------------|--|
| | | Leq | Lmin | Lmax | Leq | Lmin | Lmax | |
| 1 | Runway 27 End | 63.9 | 60.4 | 64.7 | 60.2 | 58.7 | 63.4 | |
| 2 | STP Terminal- 1 | 63.4 | 62.8 | 68.9 | 61.5 | 59.7 | 64.1 | |
| 3 | CCR-2 | 64.1 | 61.9 | 65.7 | 62.4 | 61.5 | 65.9 | |
| 4 | Apron Control | 64.0 | 61.5 | 65.9 | 62.4 | 61.3 | 64.2 | |
| 5 | 6 No Gate (Sahar) | 64.7 | 62.2 | 68.5 | 61.5 | 60.8 | 63.0 | CPCB Protocol for Ambient Level Noise Monitorina, July |
| 6 | Lima 8 | 65.2 | 61.4 | 68.5 | 62.4 | 62.8 | 64.2 | AEC/C/SAP/SAM/356 36. Issue no.4. Issue date (0.04.208) |
| 7 | Runway 14 End | 65.7 | 62.5 | 67.4 | 61.4 | 59.7 | 62.6 | |
| 8 | Project Office (Sahar) | 64.2 | 60.1 | 67.4 | 62.5 | 60.2 | 68.2 | |
| 9 | Cargo 4D | 64.1 | 62.7 | 67.5 | 62.5 | 60.1 | 63.7 | |
| 10 | OWC Kurla | 65.0 | 62.9 | 67.2 | 61.8 | 59.7 | 63.8 | |
| | MI | | | Limit | | | | |
| | As Per ti | he Enviro | nment (I | Protection | n)Rules, | 1986, Sc | hedule -I | ^ |
| Serial | | | | | L | imits in di | B (A) weig | hted scale |
| Number I | | ndustry | | Day | (6 a.m. p.m.) | to 10 | Night | (10 p.m. to 6 a.m.) |

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Airport (Busy Airport)



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End of Report

Note:

112

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

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



65

AEC/F/REP/1-G Pane 1 at 1





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NOISE LEVEL MEASURMENT REPORT

| Sample ID: N/06/22/0757 | Report No.: N/06/22/0757 | Report Date | oon Date 30/06/2022 | | |
|------------------------------|---|------------------------|-----------------------|-----------------------------|--|
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 | national Airport, | | | |
| Monitoring Done By | Laboratory | Sample Description/Typ | e Ambie | ent Noise | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date of Monitoring | | 23/06/2022 to 23/06/2022 | |
| Calibration Certificate | 2021/08/12/05 | Instrument Model | Sound | Sound level Meter | |
| Consent Number & Date. | Pormat 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | | AEC/E | EQ/404 | |

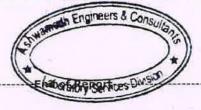
| Sr No | Location | Day Time (6AM-10PM) dB (A) | | | Night Time (10PM -6AM) dB (A) | | | Method |
|-------|------------------------|----------------------------------|------|------|-------------------------------------|------|------|---|
| | | Leq | Lmin | Lmax | Leq | Lmin | Lmax | |
| 1 | Runway 27 End | 63.1 | 59.6 | 65.7 | 61.2 | 60.2 | 63.7 | |
| 2 | STP Terminal- 1 | 66.6 | 64.5 | 68.4 | 64.0 | 62.6 | 65.0 | |
| 3 | CCR-2 | 65.1 | 62.3 | 66.7 | 63.4 | 60.4 | 64.9 | |
| 4 | Apron Control | 66.3 | 61.7 | 68.2 | 63.4 | 60.9 | 64.7 | DOOD D. A. A. L. |
| 5 | 6 No Gate (Sahar) | 66.2 | 63.6 | 68.7 | 63.2 | 61.5 | 64.8 | CPCB Protocol for Ambient Level Noise Monitoring, Jul |
| 6 | Lima 8 | 67.8 | 64.8 | 69.4 | 63.1 | 61.4 | 63.7 | AEE/C/SAP/SAM/35 36, Issue no.4, Issue date |
| 7 | Runway 14 End | 65.7 | 60.2 | 68.6 | 63.1 | 61.5 | 64.0 | 01.04.2018 |
| 8 | Project Office (Sahar) | 67.5 | 64.1 | 69.3 | 62.2 | 60.4 | 63.5 | |
| 9 | Cargo 4D | 66.4 | 62.6 | 68.7 | 62.4 | 60.9 | 64.5 | |
| 10 | OWC Kurla | 66.7 | 64.7 | 69.5 | 63.4 | 61.5 | 64.3 | 7 |

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

| | ¥= 4: -4 | Limits in dB (A) weighted scale | | | | |
|---------------|------------------------|---------------------------------|---------------------------|--|--|--|
| Serial Number | Industry | Day (6 a.m. to 10 p.m.) | Night (10 p.m. to 6 a.m.) | | | |
| 112 | Airport (Busy Airport) | 70 | 65 | | | |

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Note:

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







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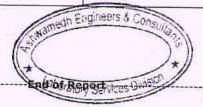
NOTSE LEVEL MEASURMENT REPORT

| Sample ID: N/08/22/033 | Report No.: N/08/22/033 | Report Date | 07/08/2022 | | |
|------------------------------|---|------------------------|------------|-------------------|--|
| | Report 140 14, 03/22/033 | Report Date | 07/08/2022 | | |
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099 Maharashtra | national Airport, | | | |
| Monitoring Done By | Laboratory | Sample Description/Typ | e Ambie | mbient Noise | |
| Order Reference | As Per Verbal Discussion | Date of Monitoring | | /2022 to /2022 | |
| Calibration Certificate | 2021/08/12/05 | Instrument Model | | level Meter | |
| Consent Number & Date. | Format 1.0/CAC/UAN No.0000111260/CR/220500081 0 | Instrument ID | AEC/E | Q/404 | |

| Sr No | Lo | cation | Day T | ime (6AM dB (A) | -10PM) | Night ' | Time (101 dB (A) | PM -6AM) | Method |
|----------|---------------------------------|------------|-------------|--------------------|-----------|-----------|---------------------|------------|--|
| 5. 110 | | CELION | Leq | Lmin | Lmax | Leq | Lmin | Lmax | |
| 1 | Runway 27 | 7 End | 64.4 | 60.1 | 67.9 | 63.2 | 59.7 | 64.5 | |
| 2 | STP Termin | nal- 1 | 66.3 | 63.4 | 68.9 | 64.7 | 62.1 | 64.5 | |
| 3 | CCR-2 | | 66.7 | 61.5 | 66.3 | 64.2 | 60.7 | 64.9 | |
| 4 | Apron Control 6 No Gate (Sahar) | | 65.1 | 63.2 | 68.7 | 64.7 | 58.5 | 64.6 | CPCB Protocol for Ambient Level |
| 5 | | | 67.2 | 63.5 | 69.3 | 63.7 | 60.2 | 64.9 | Noise Monitoring, July AEC/C/SAP/SAN/356 36 Issue no:4, Issue date |
| 6 | Lima 8 | | 66.3 | 63.2 | 67.5 | 64.7 | 62.8 | 65.7 | 01.04.2018 |
| 7 | Runway 14 | End | 67.5 | 63.1 | 68.2 | 63.5 | 61.7 | 65.3 | |
| 8 | Project Offi | ce (Sahar) | 66.2 | 63.5 | 67.8 | 63.8 | 62.5 | 65.7 | |
| 9 | Cargo 4D | N | 65.4 | 63.6 | 68.9 | 64.2 | 61.7 | 65.1 | |
| 10 | OWC Kurla | | 66.4 | 62.5 | 68.7 | 62.1 | 58.7 | 63.5 | |
| | | | | | imit | | | II | |
| | | As Per the | e Environn | nent (Prot | ection)Ru | les, 1986 | , Schedu | le -I | |
| Serial N | umber | 1 | Industry | | 1 2 | | |) weighted | scale |
| | | | | | Day (6 | a.m. to 1 | 0 p.m.) | Night (10 | p.m. to 6 a.m.) |
| 112 | | Airport | (Busy Airpo | ort) | | 70 | | | 65 |

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NOISE LEVEL MEASURMENT REPORT

| | HOIDE ELVEL HEADONN | | | | |
|------------------------------|---|-------------------------|------------|-------------------------|--|
| Sample ID: N/08/22/0306 | Report No.: N/08/22/0306 | Report Date | 30/08/2022 | | |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1B, Santacruz (E), Mumbai-400099 Maharashtra | al Airport, | | | |
| Monitoring Done By | Laboratory | Sample Description/Type | | nbient Noise | |
| Order Reference | PO.NO. 5700313365 Date. 12.08.2022 | Date of Monitoring | | /08/2022 to /08/2022 | |
| Calibration Certificate | 2021/08/12/05 | Instrument Model | So | und level Meter | |
| Consent Number & Date. | Format 1.0/CAC/UAN No.0000111260/CR/2205000810 Date.13.05.2022 | Instrument ID AEC | | AEC/EQ/404 | |

| Location | | Day Time (6AM-10PM) dB (A) | | Night Time (10PM -6AM) dB (A) | | | Method | |
|-------------|---|---|------------|-------------------------------------|-------------------|---|---|--|
| | | Leq | Lmin | Lmax | Leq | Lmin | Lmax | |
| Runway 2 | 7 End | 66.6 | 63.4 | 69.7 | 64.4 | 63.7 | 65.1 | |
| STP Termi | nal- 1 | 66.8 | 63.9 | 68.7 | 64.4 | 63.4 | 64.9 | |
| CCR-2 | | 66.6 | 61.8 | 69.4 | 63.6 | 62.4 | 64.7 | |
| Apron Con | trol | 67.5 | 64.3 | 69.8 | 63.7 | 62.5 | 64.9 | |
| 6 No Gate | (Sahar) | 66.6 | 63.5 | 70.0 | 62.6 | 60.3 | 64.8 | CPCB Protocol for Ambient Level Naise Manitoring, July |
| Lima 8 | | 67.2 | 65.0 | 69.4 | 63.8 | 62.8 | 64.8 | AEC/C/SAP/SAM/356 3 Issue no.4. Issue date 01.04.20 |
| Runway 14 | 1 End | 67.5 | 65.0 | 70.0 | 62.2 | 60.4 | 63.2 | 110.14, 15305 Gate 01.04.21 |
| Project Off | ice (Sahar) | 65.5 | 61.4 | 68.7 | 63.6 | 62.1 | 65.0 | |
| Cargo 4D | | 67.4 | 65.0 | 69.4 | 63.2 | 61.8 | 64.7 | |
| OWC Kurla | | 65.8 | 61.2 | 68.7 | 63.2 | 61.4 | 65.0 | |
| | | 1 | | | | | | |
| | As Per the | Environn | nent (Prot | ection)Ru | iles, 1986 | , Schedul | e -I | |
| ımber | 1 | ndustry | | | Limit | ts in dB (A) | weighted | scale |
| | Runway 2: STP Termi CCR-2 Apron Con 6 No Gate Lima 8 Runway 14 Project Off Cargo 4D OWC Kurla | Runway 27 End STP Terminal- 1 CCR-2 Apron Control 6 No Gate (Sahar) Lima 8 Runway 14 End Project Office (Sahar) Cargo 4D OWC Kurla As Per the | Leq | Leq Lmin | Leq Lmin Lmax | Leq Lmin Lmax Leq Runway 27 End 66.6 63.4 69.7 64.4 | Location Leq Lmin Lmax Leq Lmin | Leq Lmin Lmax Leq Lmin Lmax |

Bothewale Kavita Shewale

112

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

70

Airport (Busy Airport)

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



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

65







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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/04/22/0812 | Report No. AA/04/22/0812 | | Report Date | 03/05/2022 | |
|-------------------------------|--|-----------------------------|--------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | -1 | | |
| Sample done by | Laboratory | Sample Description/ Typ | Ambient | Air | |
| Sampling Location | Project Office Sahar | Date-Sampling | 21/04/2 | 022 to 22/04/2022 | |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | 23/04/2 | 23/04/2022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 23/04/2 | 022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 02/05/2 | 022 | |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate N | ECL/AEC 21/FLOV | • | |

| Me | teorol | ogical Dat | ta / Envii | onme | ntal Conditions | |
|--|----------------------|-------------------|-------------------|-------|--|---------------------|
| Average Wind velocity | Wind Di | | Relative Humidity | | Temperature | Duration of Survey |
| 9.7 km/h | S- | W | (Max./ Min.):67 | 7/51% | (Max./Min.):30/28°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmo: | spheric Polluti | on | | | |
| Sulphur Dioxide (SO₂) | | BLQ (LOQ:4) | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 12.3 | 80 | µg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) o | - PM ₁₀ | 41 | 100 | μg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 10 | 60 | µg/m³ | CPC8 Guideline, Volume 1,36/2012-13, Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | μg/m³ | EPA/625/R-96/010 a Compandium I | 1ethod 10-3.1 6 3.2 |
| Carbon Monoxide (CO) | on Monoxide (CO) 1.2 | | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | |

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

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₂₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide.

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Note:

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CPCB Guideline, Volume L36/2012-13, Page No.15-2013

EPA/625/R-96/010 a Compendium Method 10-31 & 3.2

AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018

CPCB Guidelines, 37/2012-13, Page no.16

AMRIENT ATRIOUALITY MONITORING REPORT

| Sample ID: AA/04/22/081 | 3 Report No.: AA/04/22/0813 | Report No.: AA/04/22/0813 Re | | | | |
|-------------------------------|---|------------------------------|---------|----------------------------------|--|--|
| Name & Address of Customer | Mumbai International Airport Lt Chhatrapati Shivaji Maharaj Interna 1 st Floor, Terminal 1-B, Santacruz (Mumbai-400099, Maharashtra. | tional Airport, | | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | | |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 21/04/2 | 022 to 22/04/2022 | | |
| Sample Quantity/ Packing | 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 bot each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | tle Date-Receipt of Sample | 23/04/2 | 23/04/2022 | | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 23/04/2 | 022 | | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 02/05/2 | 022 | | |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC | C. E. and Care and Care and Care | | |

| Me | eteorol | ogical [| Data / En | vironme | ntal Conditions | |
|---|--------------------|---------------|-------------------|----------|-------------------------|--------------------|
| Average Wind velocity | Wind Di | irection | Relative Humidity | | Temperature | Duration of Survey |
| 9.1 km/h | S- | w | (Max./ Min.) |):72/63% | (Max./Min.):32/29°C | 24 h |
| Parameter | Parameter | | NAAQS 2009 | # Unit | Meth | od |
| Chemical Testing; Gro | up: Atmo: | spheric Pol | lution | | | |
| Sulphur Dioxide (SO₂) | | BLQ (LOQ:4 | 80 | µg/m³ | IS 5882 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 10.3 | 80 | µg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) of | r PM ₁₀ | 38 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |

60

1

4

400 24.3 Ammonia (NH₃) BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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

 $\mu g/m^3$

 $\mu q/m^3$

mg/m³

 $\mu g/m^3$

in case of Carbon Monoxide.

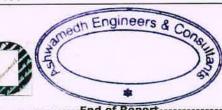
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Particulate Matter

Carbon Monoxide (CO)

Lead (Pb)

(size less than 2.5µm) or PM2.5



End of Report-

Note:

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

9

BLQ

(LOQ:0.02) 1.67

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AEC/FREP/1-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/04/22/08 | 14 Report No. AA/04/22/08 | 14 | Report Date | 03/05/2022 |
|-------------------------------|--|--------------------------------------|--------------------|-------------------|
| Name & Address of Customer | Mumbai International Airp Chhatrapati Shivaji Maharaj I 1 st Floor, Terminal 1-B, Santa Mumbai-400099, Maharashtr | International Airport, acruz (E), | · · · · · · · | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air |
| Sampling Location | OWC Kurla | Date-Sampling | 21/04/2 | 022 to 22/04/2022 |
| Sample Quantity/ Packing | PM ₁₀ ,Lead: 1 x 3 no. filter pa PM ₂₅ : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plas each NH ₃ : 10 ml x 24 no. plastic b CO:1 no. bladder | tic bottle Date-Receipt of Sample | 23/04/20 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 23/04/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 02/05/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-04 Calibration Certificate No. | | ECL/AEC 21/FLOV | |

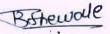
| Met | eorological | Data / Env | ironme | ental Conditions | 5 |
|---|---------------------|-----------------|--------|--|--------------------|
| Average Wind velocity | Wind Direction | Relative Hur | nidity | Temperature | Duration of Survey |
| 10.7 km/h | S-W | (Max./ Min.):7 | 70/62% | (Max./Min.):30/28°C | 24 h |
| Parameter | Resul | ts NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Group | : Atmospheric P | ollution | | | |
| Sulphur Dioxide (SO ₂) | BLQ (LOQ: | YII XII | µg/m³ | n ³ IS 5/82 (Part 2): 2001 | |
| Nitrogen Dioxide (NO₂) | 11.5 | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or F | PM ₁₀ 26 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or F | PM _{2.5} 5 | 60 | µg/m³ | CPC8 Guideline, Volume 1,36/2012-13, Page No.15:2013 | |
| Lead (Pb) | BLQ (LOQ:0. | | µg/m³ | 3 EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | |
| Carbon Monoxide (CO) | 1.79 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page n | 0.16 |
| Ammonia (NH ₃) | 37.1 | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue | e date: 01.04.2018 |

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

TWA : Time Weighted Average

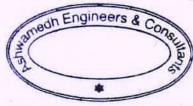
: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA

in case of Carbon Monoxide.



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

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







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| Sample ID: AA/04/22/0815 | Report No.: AA/04/22/0815 | | Report Date | 03/05/2022 |
|-------------------------------|---|--------------------------------------|--------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | : Ambient | Air |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 21/04/20 | 022 to 22/04/2022 |
| 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 | 23/04/20 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 23/04/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis 02/05/26 | | 022 |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No | ECL/AEC 21/FLOW | The state of the s |

| Average Wind velocity | Wind Dir | rection | Relative Hum | idity | Temperature | Duration of Surve |
|---|-------------------|-------------------|-----------------|-------|--|-------------------|
| 10.3 km/h | S-V | V | (Max./ Min.):67 | 7/58% | (Max./Min.):31/26°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmos | pheric Polluti | on | | | |
| Sulphur Dioxide (SO ₂) | | 4.12 | 80 | μg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO₂) | | 12.7 | 80 | µg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ | 34 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | PM _{2.5} | 7 | 60 | μg/m³ | CPCB Guideline. Volume 1.36/2012-13. Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method ID-31 6 3.2 | |
| Carbon Monoxide (CO) | | 1.30 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page n | 0.16 |
| Ammonia (NH ₃) | | 25.4 | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.

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Note:

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/01 | Report No.: AA/08/22/01 | | 06/08/2022 | |
|-------------------------------|---|--------------------------------|------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | nal Airport, | | |
| Sample done by | Laboratory | Sample Description/ Typ | Ambient | Air |
| Sampling Location | Project Office Sahar | Date-Sampling | 29/07/2 | 022 to 30/07/2022 |
| 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 | 01/08/2 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 01/08/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 05/08/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate N | ECL/AEC | 2700 |

| Me | eteorol | ogical Dat | a / Envir | onme | ntal Conditions | |
|--|---------------------|-------------------|------------------|-------|---|----------------------------|
| Average Wind velocity 9 km/h | · · | | Relative Humbley | | Temperature (Max./Min.):31/26°C | Duration of Survey 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmo | spheric Pollution | on | | | |
| Sulphur Dioxide (SO ₂) | | 4.87 | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | BLQ (LOQ:6.5) | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) o | г РМ ₁₀ | 44 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | * 1 |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 10 | 60 | μg/m³ | CPCB Guideline, Volume 1,36/2012-13 | , Page No.15:2013 |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | μg/m³ | EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2 | |
| Carbon Monoxide (CO) | | 1.47 | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH₃) | | BLQ (LOQ:20) | 400 | μg/m³ | AEC/C/SAP/AA-7. Issue no: 04 Issu | e date: 01.04.2018 |

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

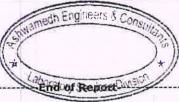
: Time Weighted Average TWA

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

in case of Carbon Monoxide.

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





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

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

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







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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/02 | Report No : AA/08/22/02 | | Report Date 06/08/20 | | |
|-------------------------------|---|--------------------------------|----------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | nal Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 29/07/2 | 022 to 30/07/2022 | |
| 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 | 01/08/2 | 022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 01/08/2 | 022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | o5/08/2022 | | |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC | | |

| Me | teoroi | ogicai va | ta / Envii | ronme | ntal Conditions | |
|--|---------------------|-------------------|-------------------|-------|--|--------------------|
| Average Wind velocity | Wind Dir | rection | Relative Humidity | | Temperature | Duration of Survey |
| 9 km/h | W | - | (Max./ Min.):74 | 4/67% | (Max./Min.):31/26°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmos | pheric Pollut | ion | | | |
| Sulphur Dioxide (SO ₂) | | 5.10 | 80 | μg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | BLQ (LOQ:6.5) | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) o | r PM ₁₀ | 60 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 9 | 60 | μg/m³ | CPC8 Guideline, Valume L36/2012-13 | , Page No.15:2013 |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 & 3.2 | |
| Carbon Monoxide (CO) | | 1.15 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page n | o.l6 |
| Ammonia (NH₃) | 1 | BLQ (LOQ:20) | 400 | μg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue | e date: 01.04.2018 |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.

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Note:

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

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

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







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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/03 | Report No.: AA/08/22/03 | | Report Date | 06/08/2022 |
|-------------------------------|--|--------------------------------|-------------|--------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air |
| Sampling Location | OWC Kurla | Date-Sampling | 29/07/2 | 022 to 30/07/2022 |
| 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 | 01/08/2 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 01/08/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 05/08/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-04 | Calibration Certificate No | ECL/AEC | :/2020- V/3938A |

| Me | teoro | logical Da | ta / Envi | ironme | ental Conditions | 5 |
|---|---------------------|-------------------|--------------------------------|--------|--|----------------------------|
| Average Wind velocity 9 km/h | Wind D | , | Relative Hum Max./ Min.):74 | | Temperature (Max./Min.):31/26°C | Duration of Survey 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmo | spheric Pollut | ion | | | |
| Sulphur Dioxide (SO₂) | | 4.87 | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 8.57 | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | r PM ₂₀ | 43 | 100 | μg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | r PM _{2.5} | 9 | 60 | μg/m³ | CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | |
| Carbon Monoxide (CO) | | 1.76 | 4 | mg/m³ | CPCB Guidelines. 37/2012-13. Page na | o.16 |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | μg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | |

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

TWA

: Time Weighted Average

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

in case of Carbon Monoxide.

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



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

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/04 | Report No.: AA/08/22/04 | 1 | Report Date | 06/08/2022 |
|-------------------------------|--|-----------------------------|-------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Li Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1-B, Santacruz (Mumbai-400099, Maharashtra. | ational Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Аіг |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 29/07/2 | 022 to 30/07/2022 |
| 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 bot each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | tle Date-Receipt of Sample | 01/08/2 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 01/08/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 05/08/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No | ECL/AEC | |

| Me | teorol | ogical D | ata | / Envir | onme | ntal Conditions | |
|--|---------------------|-----------------|--|-------------------|---------------------------------|-------------------------------------|---------------------|
| Average Wind velocity Wind D 9 km/h | | rection | Relative Humidity (Max./ Min.):74/67% | | Temperature (Max./Min.):31/26°C | Duration of Survey 24 h | |
| Parameter | | Results | | NAAQS # Unit 2009 | | Method | |
| Chemical Testing; Gro | up: Atmos | spheric Poll | ution | | | | |
| Sulphur Dioxide (SO ₂) | | 4.72 | | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO₂) | | BLQ (LOQ:6.5 | 5) | 80 | μg/m³ | 1S 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) o | г РМ ₁₀ | 44 | | 100 | μg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 10 | | 60 | µg/m³ | CPCB Guideline, Volume 1,36/2012-13 | I, Page No.15:2013 |
| Lead (Pb) | | BLQ (LOQ:0.0 | 2) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium | Method 10-3.1 & 3.2 |
| Carbon Monoxide (CO) | | 1.45 | | 4 | mg/m³ | CPCO Guidelines, 37/2012-13, Page n | a.16 |
| Ammonia (NH ₃) | | BLQ (LOQ:20 |) | 400 | μg/m³ | AEC/E/SAP/AA-7, Issue no.: 04 Issu | e date: 01.04.2018 |

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

TWA

: Time Weighted Average

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

in case of Carbon Monoxide.

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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

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AMRIENT AIR CHALTTY MONITORING REPORT

| Sample ID: AA/05/22/08 | 80 Report No AA/05/22/0880 | 1 | Report Date 01/06/20 | | |
|-------------------------------|---|--------------------------------|---------------------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Le Chhatrapati Shivaji Maharaj Interna 1 st Floor, Terminal 1-B, Santacruz (Mumbai-400099, Maharashtra. | ational Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Description/ Type Ambient Air | | |
| Sampling Location | Project Office Sahar | Date-Sampling | 24/05/2 | 022 to 25/05/2022 | |
| Sample Quantity/ Packing | 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 bot each NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | tle Date-Receipt of Sample | 26/05/2 | 022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/2 | 022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | + | | |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate No | ECL/AEC/2020- 21/FLOW/3936A | | |

| Me | teoro | logical Dat | ta / Envii | onme | ntal Conditions | J. | |
|---|---------------------|-------------------|----------------------|-------|--|--------------------|--|
| Average Wind velocity 9.1 km/h | Wind Direction | | Relative Humidity | | Temperature | Duration of Survey | |
| 9.1 KHI/R | 5- | ·W (| (Max./ Min.):68 | 5/55% | (Max./Min.):31/28°C | 24 h | |
| Parameter | Parameter | | Results NAAQS # Unit | | Meth | Method | |
| Chemical Testing; Gro | up: Atmo | spheric Pollutio | on | | | | |
| Sulphur Dioxide (SO ₂) | | 4.27 | 80 | µg/m³ | IS 5812 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO ₂) | | 11.3 | 80 | µg/m³ | IS 582 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ | 44 | 100 | µg/m³ | IS 5822 (Part 73): 2006 | | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2.5} | 9 | 60 | hð/m³ | CPCB Suideline, Valume 1.35/2012-13 | l. Page No.15:2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/USD + Compendium Method ID-31 6 3 2 | | |

4

400

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

TWA : Time Weighted Average

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

mg/m³

 $\mu g/m^3$

CPC8 Guidelines, 37/2882-13, Page ne.16

AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018



Carbon Monoxide (CO)

Ammonia (NH₃)

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



Note:

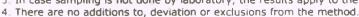
1. The result listed refers only to the tested sample(s) and applicable parameter(s).

1.74

BLQ

(LOQ:20)

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID AA/05/22/088 | Report No. AA/05/22/0881 | | Report Date | 01/06/2022 |
|-------------------------------|--|--------------------------------|---------------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltc Chhatrapati Shivaji Maharaj Internat 1 st Floor, Terminal 1-B, Santacruz (E Mumbai-400099, Maharashtra | ional Airport, | | |
| Sample done by | Laboratory | Sample Description, Type | : Ambient | Air |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 24/05/20 | 022 to 25/05/2022 |
| Sample Quantity/ Packing | PM ₁₀ ,Lead: 1 x 3 no. filter paper PM ₂ s: 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 | e Date-Receipt of Sample | 26/05/20 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 |)22 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/20 |)22 |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC, 21/FLOW | |

| Average Wind velocity | Wind Directio | n | Relative Humidity (Max./ Min.):66/54% | | | |
|---|---------------|----------------------|--|-------|--|----------------------------|
| 8.6 km/h | S-W | | | | Temperature (Max./Min.):32/29°C | Duration of Survey 24 h |
| Parameter | | Results NAAQS # Unit | | Meth | od | |
| Chemical Testing; Gro | up: Atmospher | ic Pollutio | on | | | |
| Sulphur Dioxide (SO ₂) | | 6.33 | 80 | µg/m³ | IS 5/82 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 10 | 80 | µg/m³ | IS 582 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | PM10 | 43 | 100 | µg/m³ | IS 5/82 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | PM2.5 | 10 | 60 | µg/m³ | CPCB Guideline, Volume 1.35/2012-13, Page No.15-2013 | |
| Lead (Pb) | (LC | BLQ)Q:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method IG-31 6 3 2 | |
| Carbon Monoxide (CO) | | 1.98 | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH ₃) | (L | BLQ OQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7 Issue no. D4 Issue date: DI D4 2018 | |

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

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₂₀, PM₂₅, Lead and Ammonia, 1 hour TWA

in case of Carbon Monoxide.



Section In-charge (Chemical)
Reviewed & Authorised by





Note:

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

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

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

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



AEC FREP 1-8
Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/05/22/088 | Report No.: AA/05/22/0882 | | Report Date | 01/06/2022 |
|-------------------------------|--|--------------------------------|--------------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B. Santacruz (E), Mumbai-400099, Maharashtra | nal Airport, | | |
| Sample done by | Laboratory | Sample Description Type | Ambient | Air |
| Sampling Location | OWC Kurla | Date-Sampling | 24/05/20 | 022 to 25/05/2022 |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | 26/05/20 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/20 |)22 |
| Sampling Equipment ID | AEC/TH/RDS-04 | Calibration Certificate No | ECL/AEC 21/FLOW | |

| Me | teoro | logical Da | ita / Envi | ronme | ental Condition | S |
|---|---------------------|-------------------|---------------------|-------|---|---------------------|
| Average Wind velocity | Wind D | rection | Relative Hum | idity | Temperature | Duration of Survey |
| 8.4 km/h | S- | w | (Max./ Min.):6 | 7/54% | (Max./Min.):32/27°C | 24 h |
| Parameter Resu | | Results | esults NAAQS # Unit | | Method | |
| Chemical Testing; Gro | up: Atmo | spheric Pollu | tion | | | |
| Sulphur Dioxide (SO ₂) | | 6.94 | 80 | μg/m³ | IS 5/82 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 10.1 | 80 | µg/m³ | IS 5882 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ | 35 | 100 | µg/m³ | IS SIB2 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2.5} | 6 | 60 | µg/m³ | n ³ CPCB Suideline, Volume 1,36/2012-13, Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium N | lethod 10-3.1 6 3.2 |

4

400

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

TWA

Ammonia (NH₃)

Carbon Monoxide (CO)

: 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 s, Lead and Ammonia, 1 hour TWA

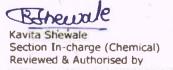
mg/m³

 $\mu g/m^3$

CPCB Sudelines. 37/2012-13. Page no.16

AEC/C/SAP/AA-7, Issue no. 94 Issue date: 01 04 2018

in case of Carbon Monoxide.





1.41

BLQ

(LOQ:20)



End of Report

Note:

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







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AMBIENT AIR QUALITY MONITORING REPORT

| Sample II) AA/05/22/088 | Report No. AA/05/22/0883 | | Report Date | 01/06/2022 |
|-------------------------------|--|-----------------------------|--------------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1-B, Santacruz (E) Mumbai-400099, Maharashtra. | onal Airport, | | · . |
| Sample done by | Laboratory | Sample Description Type | Ambient | Air |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 24/05/2 | 022 to 25/05/2022 |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | 26/05/20 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/2022 | |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No | ECL/AEC 21/FLOW | |

| Me | teoro | logical Dat | a / Envir | onme | ntal Conditions | | |
|---|-------------------|------------------|----------------------|-------|--|--------------------|--|
| Average Wind velocity | Wind D | irection | Relative Hum | idity | Temperature | Duration of Survey | |
| 8.8 km/h | S | -E (| Max./ Min.):69 | 0/56% | (Max./Min.):32/29°C | 24 h | |
| Parameter | | Results | Results NAAQS # Unit | | Meth | nod I | |
| Chemical Testing; Gro | up: Atmo | spheric Pollutio | on | | | | |
| Sulphur Dioxide (SO ₂) | | 4.81 | 80 | µg/m³ | IS 5182 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO ₂) | | 11.3 | 80 | µg/m³ | IS SI82 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ | 57 | 100 | µg/m³ | IS 5/82 (Part 23): 2006 | | |
| Particulate Matter (size less than 2.5µm) or | PM _{2.5} | 12 | 60 | µg/m³ | CPCB Guideline, Volume 1.36/2012-03 | L Page No.15:2013 | |
| Lead (Pb) | | BLQ (1.00:0.03) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Mathod IO-31 6 3.2 | | |

4

400

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

TWA : Time Weighted Average

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

mg/m³

 $\mu g/m^3$

CPCB Guidelines, 37/2012-13, Page no.16

AEC/C/SAP/AA-7, Issue no.: D4 Issue date: D1.D4.2018

in case of Carbon Monoxide.

Binewale Kavita Shewale

Carbon Monoxide (CO)

Ammonia (NH₃)

Section In-charge (Chemical)
Reviewed & Authorised by





End of Report-

Note:

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(LOQ:0.02)

1.43

BLQ

(LOQ:20)

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



AEC FREP 1-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

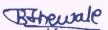
| Sample ID AA/05/22/088 | Report No.: AA/05/22/0880 | | Report Date | 01/06/2022 |
|-------------------------------|--|--------------------------------|-----------------------------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1-B, Santacruz (E) Mumbai-400099, Maharashtra. | onal Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air |
| Sampling Location | Project Office Sahar | Date-Sampling | 24/05/2 | 022 to 25/05/2022 |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | Date-Receipt of Sample 26/05/2022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/2022 | |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate No | ECL/AEC 21/FLOW | |

| Me | teorolo | gical Da | ta / Envii | ronme | ntal Conditions | |
|---|---------------------|-------------------|-----------------|---|--|--------------------|
| Average Wind velocity Wind D | | ction | Relative Hum | idity | Temperature | Duration of Survey |
| 9.1 km/h | S-W | | (Max./ Min.):68 | 3/55% | (Max./Min.):31/28°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Meth | od |
| Chemical Testing; Gro | up: Atmosp | heric Polluti | on | | | |
| Sulphur Dioxide (SO ₂) | | 4.27 | 80 | µg/m³ | IS 5882 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 11.3 | 80 | µg/m³ | IS 5882 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | r PM ₁₀ | 44 | 100 | µg/m³ | IS 5682 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | r PM _{2.5} | 9 | 60 | µg/m³ | CPCB Guideline, Volume I.36/2012-13, Page No.15:2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium I | Method 10-3J & 3.2 |
| Carbon Monoxide (CO) | | 1.74 | 4 | rmg/rm³ CPCB Guidelines, 37/2012-13, Page na. | | z.16 |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no_ Q4 Issue | date: 01.04.2018 |

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

TWA : Time Weighted Average

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



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Note:

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

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



AEC FREP 1-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID AA/05/22/088 | 1 Report No. AA/05/22/0881 | | Report Date | 01/06/2022 | |
|-------------------------------|--|--------------------------------|-----------------------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | , | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 24/05/20 | 022 to 25/05/2022 | |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | Date-Receipt of Sample 26/05/2022 | | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 | 26/05/2022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/2022 | | |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC 21/FLOW | | |

Consent Number & Date: Format 1.0/BO/CAC-Cell/UAN No. 0000046050/5th CAC-1811001379 Dated 29.11.2018

| Meteorological Data / Environmental Conditions | | | | | | | |
|--|----------------|-------------------|-------------|--------------------|--|--|--|
| Average Wind velocity | Wind Direction | Relative Humidity | Temperature | Duration of Survey | | | |

| Parameter | Results | NAAQS # 2009 | Unit | Method | |
|---|-------------------|--------------|-------|---|--|
| Chemical Testing; Group: Atm | ospheric Pollutio | on . | | | |
| Sulphur Dioxide (SO ₂) | 6.33 | 80 | µg/m³ | IS 5/82 (Pert 2): 200) | |
| Nitrogen Dioxide (NO ₂) | 10 | 80 | µg/m³ | IS 5682 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | 43 | 100 | µg/m³ | IS 5/82 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or PM _{2,5} | 10 | 60 | µg/m³ | CPCB Guideline, Volume L36/2012-13, Page No.15:2013 | |
| Lead (Pb) | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method IO-31 6 3.2 | |
| Carbon Monoxide (CO) | 1.98 | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no IG | |
| Ammonia (NH ₃) | BLQ (100:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no. 04 Issue date: 01 04.2018 | |

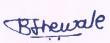
(Max./ Min.):66/54% (Max./Min.):32/29°C

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

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₂₀, PM₂₅, Lead and Ammonia, 1 hour TWA

in case of Carbon Monoxide.



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End of Report

Note:

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



24 h





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AMRIENT AIR CHALITY MONITORING REPORT

| Sample ID: AA/05/22/08 | | Report Date | 01/06/2022 | | |
|-------------------------------|---|--------------------------------|--------------------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 st Floor, Terminal 1-B, Santacruz (E) Mumbai-400099, Maharashtra | anal Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Аіг | |
| Sampling Location | OWC Kurla | Date-Sampling | 24/05/20 | 022 to 25/05/2022 | |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | 26/05/20 |) | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/20 | 022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/2022 | | |
| Sampling Equipment ID | AEC/TH/RDS-04 | Calibration Certificate No | ECL/AEC/2020- 21/FLOW/3938A | | |

| Average Wind velocity | Wind Direction | Relative Hur | midity | Temperature | Duration of Survey |
|---|---------------------|----------------|-------------------|---|--------------------|
| 8.4 km/h | S-W | (Max./ Min.):6 | 57/54% | (Max./Min.):32/27°C | 24 h |
| Parameter | Result | NAAQS # Unit | | Meti | nod |
| Chemical Testing; Grou | p: Atmospheric P | ollution | | | |
| Sulphur Dioxide (SO₂) | 6.94 | 80 | µg/m³ | IS 5882 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | 10.1 | 80 | µg/m³ | IS 5882 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ 35 | 100 | µg/m³ | IS 5/82 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | PM25 6 | 60 | hā/w ₃ | CPC8 Guidelina. Volume (36/2012-13, Page No.15/2013 | |
| Lead (Pb) | ad (Pb) BLQ (LOQ:0. | | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 6-32 | |
| Carbon Monoxide (CO) | 1.41 | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13. Page no.16 | |
| Ammonia (NH ₃) | BLQ (LOQ:2 | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no. 04 Issue date: 01 04 2018 | |

Meteorological Data / Environmental Conditions

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.

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End of Report

Note:

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



AEC FREP 1-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/05/22/088 | | Report Date | 01/06/2022 | |
|-------------------------------|---|--------------------------------|------------------------------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Sample done by | Laboratory | Sample Description/ Typ | Ambient | Air |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 24/05/2 | 022 to 25/05/2022 |
| 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 | 26/05/2 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 26/05/2 | 022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 31/05/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate N | No. ECL/AEC/2020- 21/FLOW/3934A | |

| Me | teorolo | gical Da | ta / Envir | onme | ntal Conditions | | |
|------------------------------------|--------------------|--------------|--|-------|------------------------------------|----------------------------|--|
| Average Wind velocity 8.8 km/h | Wind Direction S-E | | Relative Humidity (Max./ Min.):69/56% | | Temperature (Max./Min.):32/29°C | Duration of Survey 24 h | |
| Parameter | | Results | NAAQS # 2009 | Unit | t Method | | |
| Chemical Testing; Gro | up: Atmosį | heric Pollut | ion | | | | |
| Sulphur Dioxide (SO ₂) | | 4.81 | 80 | ua/m³ | IS SI82 (Part 2): 2001 | | |

| Chemical Testing; Group: Atmo | spheric Pollution | | | |
|---|-------------------|-----|-------|---|
| Sulphur Dioxide (SO ₂) | 4.81 | 80 | µg/m³ | IS Si82 (Port 2): 2001 |
| Nitrogen Dioxide (NO ₂) | 11.3 | 80 | µg/m³ | IS 5/82 (Pert 6): 2006 |
| Particulate Matter (size less than 10 µm) or PM10 | 57 | 100 | µg/m³ | \$ 582 (Pert 23): 2006 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | 12 | 60 | µg/m³ | CPC8 Guideline. Volume L35/2012-13. Page No. 5:2013 |
| Lead (Pb) | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method (0-3.1 6 3.2 |
| Carbon Monoxide (CO) | 1.43 | 4 | mg/m³ | CPCB Guidelines. 37/2012-13, Page no.16 |
| Ammonia (NH ₃) | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue ro: D4 Issue date: D1 D4 2018 |

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

: 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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End of Report

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Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/0302 | Report No.: AA/08/22/0302 | 1 | Report Date | 30/08/2022 |
|---------------------------------|---|-----------------------------|--------------------|-------------------|
| Name & Address of Customer _ | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air |
| Sampling Location | Project Office Sahar | Date-Sampling | 23/08/2 | 022 to 24/08/2022 |
| 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 | 25/08/2 | 022 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/08/2 | 022 |
| Order Reference | S.O. No. 5700313365 dated 12.08.2022 | Date-Completion of Analysis | 29/08/2 | 022 |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate No | ECL/AEC 21/FLOV | |

| Me | teorol | ogical Da | ta / Envi | onme | ntal Conditions | |
|---|---------------------|-------------------|-------------------|-------------------|--|--------------------|
| Average Wind velocity | Wind Di | rection | Relative Humidity | | Temperature | Duration of Survey |
| 9 km/h | S-1 | W | (Max./ Min.):72 | 2/65% | (Max./Min.):29/26°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmos | spheric Pollut | ion | | | |
| Sulphur Dioxide (SO ₂) | | 5.26 | 80 | μg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 9.41 | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | r PM ₁₀ | 39 | 100 | μg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | r PM _{2.5} | 11 | 60 | μg/m³ | CPCB Guideline, Volume 1,36/2012-13, Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | μg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | |
| Carbon Monoxide (CO) | | 1.27 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | ha/w ₃ | AEE/C/SAP/AA-7, Issue no.: U4 Issue date: 01.04.2018 | |

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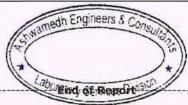
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BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

: Time Weighted Average

in case of Carbon Monoxide.



: 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

Note:

TWA

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/0303 | Report No.: AA/08/22/0303 | | Report Date | 30/08/2022 | |
|-------------------------------|--|--|--------------------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | nal Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 23/08/2 | 022 to 24/08/2022 | |
| Sample Quantity/ Packing | 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 | Date-Receipt of Sample | 25/08/2 | 022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/08/2 | 022 | |
| Order Reference | S.O. No. 5700313365 dated 12.08.2022 | Date-Completion of Analysis 29/08/2022 | | 022 | |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC/2020- 21/FLOW/3935A | | |

| ME | reordi | ogical D | ata / Elivi | Omne | ntal Conditions | |
|---|---------------------|------------------|-------------------|-------|--|--------------------|
| Average Wind velocity | Wind Di | rection | Relative Humidity | | Temperature | Duration of Survey |
| 9 km/h | S-1 | w | (Max./ Min.):7 | 2/65% | (Max./Min.):29/26°C | 24 h |
| Parameter | | Results | NAAQS # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmos | spheric Pollu | tion | | | |
| Sulphur Dioxide (SO₂) | | BLQ (LOQ:4) | 80 | μg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 8.19 | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | - PM ₁₀ | 51 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2.5} | 14 | 60 | µg/m³ | CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02 | 1 | μg/m³ | EPA/625/R-96/010 a Compendium Method 10-3J & 3.2 | |
| Carbon Monoxide (CO) | | 2.18 | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | |

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

TWA # : Time Weighted Average

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

in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/03 | 04 Report No : AA/08/22/0304 | Report No : AA/08/22/0304 Rep | | | | |
|-------------------------------|--|-------------------------------|---------|--------------------------------|--|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | nal Airport, | | | | |
| Sample done by | Laboratory | Sample Description/ Typ | Ambient | Air | | |
| Sampling Location | OWC Kurla | Date-Sampling | 23/08/2 | 022 to 24/08/2022 | | |
| 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 | 25/08/2 | 022 | | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/08/2 | 022 | | |
| Order Reference | S.O. No. 5700313365 dated 12.08.2022 | Date-Completion of Analysis | 29/08/2 | 022 | | |
| Sampling Equipment ID | AEC/TH/RDS-04 | Calibration Certificate No | | ECL/AEC/2020- 21/FLOW/3938A | | |

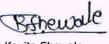
| Me | teoro | logical D | ata / Env | ironme | ental Conditions | S |
|---|---------------------|-------------------|-------------------|--------|--|--------------------|
| Average Wind velocity | Wind D | irection | Relative Humidity | | Temperature | Duration of Survey |
| 9 km/h | S- | -W | (Max./ Min.):70 | 0/65% | (Max./Min.):29/26°C | 24 h |
| Parameter | | Results | NAAQ5 # 2009 | Unit | Method | |
| Chemical Testing; Gro | up: Atmo | ospheric Pollu | tion | | | |
| Sulphur Dioxìde (SO₂) | | BLQ (LOQ:4) | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | BLQ (LOQ:6.5) | 80 | µg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | PM ₁₀ | 35 | 100 | μg/m³ | IS 5/82 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2,5} | 6 | 60 | μg/m³ | CPCB Guideline, Volume 1.36/2012-13, Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | μg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | |
| Carbon Monoxide (CO) | | 1.72 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH₃) | | BLQ (LOQ:20) | 400 | μg/m³ | | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.



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Note:

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









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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/08/22/0305 Report No.: AA/08/22/0305 | | | | 30/08/2022 |
|--|--|--|------------|-------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 23/08/2 | 022 to 24/08/2022 |
| Sample Quantity/ Packing | 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 | $M_{2.5}$: 1 x 1 no. filter paper O_2 , NO_2 : 30 ml x 6 no. plastic bottle ach H_3 : 10 ml x 24 no. plastic bottle O_2 | | 22 |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/08/2 | 022 |
| Order Reference | S.O. No. 5700313365 dated 12.08.2022 | Date-Completion of Analysis | 29/08/2022 | |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No | ECL/AEC | |

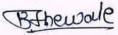
| Me | teorol | ogical Dat | a / Envii | ronme | ntal Conditions | | |
|---|---------------------|----------------------|-------------------|-------|--|--------------------|--|
| Average Wind velocity Wi | | irection | Relative Humidity | | Temperature | Duration of Survey | |
| 8 km/h | S- | w (| Max./ Min.):72 | 2/66% | (Max./Min.):29/26°C | 24 h | |
| Parameter | | Results NAAQS # Unit | | Meth | od | | |
| Chemical Testing; Gro | up: Atmo | spheric Pollutio | on | | | | |
| Sulphur Dioxide (SO ₂) | | 5.10 | 80 | μg/m³ | IS 5182 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO ₂) | | 11.3 | 80 | μg/m³ | 3 IS 5182 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) o | r PM ₁₀ | 42 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | | |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 10 | 60 | μg/m³ | CPCB Guideline, Volume L36/2012-13, Page No.15:2013 | | |
| Lead (PD) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 & 3.2 | | |
| Carbon Monoxide (CO) | on Monoxide (CO) 1. | | 4 | mg/m³ | CPCB Guidelines. 37/2012-13, Page no.16 | | |
| Ammonia (NH ₃) | | BLQ (LOQ:20) | 400 | μg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | | |
| PLO. Polow Limit of Our | a bifi an bia a | 100.1:-: | Non-Hillentine | | * | | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.



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Note

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









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AMBIENT AIR QUALITY MONITORING REPORT

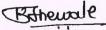
| Sample ID: AA/06/22/0682 | | Report No.: AA/06/22/0682 Re | | | 30/06/2022 |
|-------------------------------|---|--|-----------------------------|------------------|--------------------|
| Name & Address of Customer | Chha 1 st Fl | i bai International Airport Ltd. trapati Shivaji Maharaj Internatio por, Terminal 1-B, Santacruz (E) bai-400099, Maharashtra. | onal Airport, | | |
| Sample done by | Labo | ratory | Sample Description/ Typ | e Ambien | t Air |
| Sampling Location | Proje | ct Office Sahar | Date-Sampling | 23/06/2 | 2022 to 24/06/2022 |
| Sample Quantity/ Packing | PM _{2.5} SO ₂ , each NH ₃ : | Lead: 1 x 3 no. filter paper : 1 x 1 no. filter paper NO ₂ : 30 ml x 6 no. plastic bottle 10 ml x 24 no. plastic bottle no. bladder | Date-Receipt of Sample | ample 25/06/2022 | |
| Sampling Procedure | As pe | r method reference | Date-Start of Analysis | 25/06/2 | .022 |
| Order Reference | | No. 4600005756 dated 7.2021 | Date-Completion of Analysis | 29/06/2 | 2022 |
| Sampling Equipment ID | AEC/ | TH/RDS-02 | Calibration Certificate N | | C/2020- N/3936A |

| Me | teorolo | gical Da | ta / Envii | onme | ntal Conditions | |
|---|---------------------|-------------------|---|-------|--|----------------------------|
| Average Wind velocity Wind I | | | Relative Humidity (Max./ Min.):73/64% Ilts NAAQS # Unit 2009 | | Temperature (Max./Min.):32/28°C | Duration of Survey 24 h |
| Parameter | Parameter R | | | | Meth | od |
| Chemical Testing; Gro | up: Atmosp | heric Pollut | ion | | | |
| Sulphur Dioxide (SO₂) | | BLQ (LOQ:4) | 80 | µg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO₂) | | BLQ (LOQ:6.5) | 80 | μg/m³ | IS 5(82 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | - PM ₁₀ | 36 | 100 | µg/m³ | IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2.5} | 7 | 60 | µg/m³ | CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013 | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 & 3.2 | |
| Carbon Monoxide (CO) | | 1.43 | 4 | mg/m³ | CPCB Guidelines. 37/2012-13, Page no.16 | |
| Ammonia (NH₃) | | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7. Issue no.: 04 Issue date: 01.04.2018 | |

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

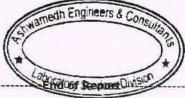
TWA : Time Weighted Average

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



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



AEC/FREP/I-B Page I of I





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AMRIENT ATP OUALTTY MONITORING DEPORT

| Sample ID: AA/06/22/0683 | Report No.: AA/06/22/0683 | 1 | Report Date | 30/06/2022 | |
|-------------------------------|---|-----------------------------|--------------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | nal Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 23/06/20 | 022 to 24/06/2022 | |
| 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 | 25/06/26 | 022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/06/20 | 25/06/2022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 29/06/2022 | | |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No | ECL/AEC 21/FLOW | | |

| Me | eteorological | Data / Environmen | ntal Conditions | | |
|-----------------------|----------------|---------------------|---------------------|--------------------|--|
| Average Wind velocity | Wind Direction | Relative Humidity | Temperature | Duration of Survey | |
| 8.5 km/h | S-W | (Max./ Min.):70/61% | (Max./Min.):30/27°C | 24 h | |
| Parameter | Pasu | Its NAAQS # Unit | Moth | | |

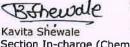
| Parameter | Results | NAAQS # 2009 | Unit | Method | | | | | | |
|---|-------------------|--------------|-------|--|--|--|--|--|--|--|
| Chemical Testing; Group: Atmospheric Pollution | | | | | | | | | | |
| Sulphur Dioxide (SO₂) | 4.72 | 80 | µg/m³ | IS 5182 (Part 2): 2001 | | | | | | |
| Nitrogen Dioxide (NO₂) | BLQ (LOQ:6.5) | 80 | µg/m³ | IS 5182 (Part 6): 2006 | | | | | | |
| Particulate Mátter (size less than 10 μm) or PM10 | 27 | 100 | μg/m³ | IS 5(82 (Part 23): 2006 | | | | | | |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | 8 | 60 | µg/m³ | CPCB Guideline, Volume 1,36/2012-13, Page No.15-2013 | | | | | | |
| Lead (Pb) | BLQ (LOQ:0.02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | | | | | | |
| Carbon Monoxide (CO) | 1.65 | 4 | mg/m³ | EPC8 Guidelines, 37/2012-13, Page no.16 | | | | | | |
| Ammonia (NH ₃) | BLQ (LOQ:20) | 400 | μg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | | | | | | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.



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Note:

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AEC/FREP/I-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| T | | | 30/06/2022 |
|--|---|--|--|
| Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | |
| Laboratory | Sample Description/ Type | Ambient | Air |
| OWC Kurla | Date-Sampling | 23/06/20 | 22 to 24/06/2022 |
| 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 | 25/06/20 | 22 |
| As per method reference | Date-Start of Analysis | 25/06/20 | 22 |
| W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis | 29/06/2022 | |
| pling Equipment ID AEC/TH/RDS-04 | | | |
| | 1st Floor, Terminal 1-B, 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 AEC/TH/RDS-04 | 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. Laboratory Sample Description/ Type OWC Kurla Date-Sampling 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 Date-Start of Analysis W.O. No. 4600005756 dated 08.07.2021 Analysis AEC/TH/RDS-04 Calibration Certificate No. | 1st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. Laboratory OWC Kurla PM10, Lead: 1 x 3 no. filter paper PM2.s: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each NH3: 10 ml x 24 no. plastic bottle CO:1 no. bladder As per method reference W.O. No. 4600005756 dated 08.07.2021 Sample Description/ Type Ambient 23/06/20 Date-Sampling Date-Receipt of Sample 25/06/20 Date-Start of Analysis 25/06/20 Date-Completion of Analysis 29/06/20 |

| Me | teoro | logical Da | ita / Envi | ironme | ental Conditions | S | |
|--|---------------------|----------------------|--|--------|--|----------------------------|--|
| Average Wind velocity 9.6 km/h S-W Parameter | | | Relative Humidity (Max./ Min.):72/63% | | Temperature (Max./Min.):30/27°C | Duration of Survey 24 h | |
| | | Results NAAQS # Unit | | Meti | nod | | |
| Chemical Testing; Gro | up: Atm | ospheric Pollul | tion | | | | |
| Sulphur Dioxide (SO₂) | | BLQ (LOQ:4) | 80 | µg/m³ | IS 5182 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO ₂) | | 11 | 80 | µg/m³ | 3 IS 5182 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) o | r PM ₁₀ | 43 | 100 | μg/m³ | IS 5182 (Part 23): 2006 | | |
| Particulate Matter (size less than 2.5µm) o | r PM _{2.5} | 7 | 60 | μg/m³ | CPCB Guideline, Volume L36/2012-13, Page No.15:2013 | | |
| Lead (Pb) | | BLQ (LOQ:0.02) | 1 | μg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | | |
| Carbon Monoxide (CO) | - | 1.85 | 4 | mg/m³ | CPCB Guidelines, 37/2012-13, Page no.16 | | |
| Ammonìa (NH₃) | | BLQ (LOQ:20) | 400 | µg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID: AA/06/22/0685 | | Report Date | 30/06/2022 | | |
|-------------------------------|---|--|------------|-------------------|--|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 1 st Floor, Terminal 1-B, Santacruz (E), Mumbai-400099, Maharashtra. | al Airport, | | | |
| Sample done by | Laboratory | Sample Description/ Type | Ambient | Air | |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 23/06/2 | 022 to 24/06/2022 | |
| 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 | 25/06/20 | 022 | |
| Sampling Procedure | As per method reference | Date-Start of Analysis | 25/06/20 | 25/06/2022 | |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Completion of Analysis 29/06/2022 | |)22 | |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No | ECL/AEC | | |

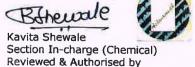
| Me | teorol | ogical | Dat | a / Envii | onme | ntal Conditions | |
|---|---------------------|----------------|--------|-------------------|-------|--|--------------------|
| Average Wind velocity Win | | rection | | Relative Humidity | | Temperature | Duration of Survey |
| 9.3 km/h | S-1 | W | (| Max./ Min.):68 | 3/59% | (Max./Min.):32/27°C | 24 h |
| Parameter | | Resul | ts | NAAQS # 2009 | Unit | Meth | od |
| Chemical Testing; Gro | up: Atmos | spheric Po | llutio | n | | | |
| Sulphur Dioxide (SO ₂) | | 5.41 | | 80 | μg/m³ | IS 5182 (Part 2): 2001 | |
| Nitrogen Dioxide (NO ₂) | | 8.95 | | 80 | μg/m³ | IS 5182 (Part 6): 2006 | |
| Particulate Matter (size less than 10 µm) or | - PM ₁₀ | 52 | | 100 | µg/m³ | ³ IS 5182 (Part 23): 2006 | |
| Particulate Matter (size less than 2.5µm) or | - PM _{2.5} | 10 | | 60 | μg/m³ | CPC8 Guideline, Volume 1,36/2012-13, Page No.15-2013 | |
| Lead (Pb) | | BLQ (LOQ:0. | | 1 | µg/m³ | 3 EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2 | |
| Carbon Monoxide (CO) | | 2.04 | | 4 | mg/m³ | CPC8 Guidelines, 37/2012-13, Page no.16 | |
| Ammonia (NH₃) | | BLQ (LOQ:2 | | 400 | μg/m³ | AEC/C/SAP/AA-7, Issue no.: 04 Issue date: 01.04.2018 | |

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

TWA : Time Weighted Average

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

in case of Carbon Monoxide.





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AEC/FREP/I-B Page 1 of 1





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AMBIENT AIR QUALITY MONITORING REPORT

| Sample 1D AA/09/22/5573 | Report No. AA/09/22/5573 | Report Date | 24/09/2022 |
|----------------------------|---|-----------------------------|--------------------------------|
| Name & Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internation 14 Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. | ai Airport, | L. L. |
| Sampling done by | Laboratory | Sample Description/Type | Ambient Air |
| Sampling Location | Project Office Sahar | Date-Sampling | 15/09/2022 to 16/09/2022 |
| Sample Quantity/ Packing | PM ₁₀ , Lead: 1 x 3 no. Filter paper PM ₂₅ : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | Date-Receipt of Sample | 17/09/2022 |
| Sampling Procedure | As per Method Reference | Date-Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date-Completion of Analysis | 24/09/2022 |
| Sampling Equipment ID | AEC/TH/RDS-02 | Calibration Certificate No. | ECL/AEC/2020- 21/FLOW/3936A |

| Mete | orological D | ata / E | nvironr | nenta | I Conditions | | |
|---|---------------------------------------|---------|----------|-------|---|--|--|
| Average Wind velocity 11 km/h | Wind Direction Relative Humidity Temp | | Humidity | | Temperature Duration of ex./Min.)30/26°C 24 h | | |
| Parameter | | | Me | ethod | | | |
| Chemical Testing; Group: | Atmospheric Pol | lution | | | | | |
| Sulphur Dioxide (SO ₂) | 6.3 | | 80 | µg/m³ | IS 5/82 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO ₂) | 12.7 | | 80 | µg/m³ | IS 5182 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 μm) or PM ₁₀ | 52 | | 100 | µg/m³ | IS 5182 (Part 23): 2006 | | |
| Particulate Matter (size less than 2.5 µm) or PM2.5 | 22 | | 60 | µg/m³ | CPCB Guidelines, Volume 1,36/2012-13, Page no.15: 2013 | | |
| Lead (Pb) | BLQ (LOQ:0.0 | 02) | 1 | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 & 3.2 | | |
| Carbon Monoxide (CO) | 1.03 | | 4 | mg/m³ | CPC8 Guidelines. Volume II, 37/2012-13, Page no.16:2013 | | |
| Ammonia (NH₃) | BLQ (LOQ:20 | 0) | 400 | µg/m³ | CPC8 Guidelines, Volume 1,36/2012-13, Page no 35: 2013 | | |

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

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM23, 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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AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID AA/09/22/5574 | Report No. AA/09/22/5574 | Report Date | 24/09/2022 |
|----------------------------|---|-----------------------------|--------------------------------|
| Name & Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internationa 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra | Il Airport, | |
| Sampling done by | Laboratory | Sample Description/Type | Ambient Air |
| Sampling Location | MLCP Santacruz (T1) | Date-Sampling | 15/09/2022 to 16/09/2022 |
| Sample Quantity/ Packing | PM ₁₀ , Lead: 1 x 3 no. Filter paper PM ₂ s: 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | Date-Receipt of Sample | 17/09/2022 |
| Sampling Procedure | As per Method Reference | Date-Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date-Completion of Analysis | 24/09/2022 |
| Sampling Equipment ID | AEC/TH/RDS-03 | Calibration Certificate No. | ECL/AEC/2020- 21/FLOW/3935/ |

| Mete | orological D | Data / E | nvironi | nenta | I Conditions | | |
|--|----------------------|----------|-----------------------|------------|--|----------------------------|--|
| Average Wind velocity 11 km/h | Wind Direction SW | | Humidity .):86/80% | (Ma | Temperature x./Min.)30/26°C | Duration of Survey | |
| Parameter | Result | s | NAAQS # 2009 | AAQS# Unit | | Method | |
| Chemical Testing; Group: | Atmospheric Poli | lution | | | | | |
| Sulphur Dioxide (SO ₂) | 7.3 | | 80 | µg/m³ | IS 5/82 (Part 2) 2001 | | |
| Nitrogen Dioxide (NO ₂) | 10.9 | | 80 | µg/m³ | IS 5182 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | 56 | | 100 | µg/m³ | IS 5182 (Part 23): 2006 | | |
| Particulate Matter (size less than 2.5 µm) or PM _{2.5} | 20 | | 60 | µg/m³ | CPC8 Guidelines. Volume 1:36/2012-13. Page no.15: 2013 | | |
| Lead (Pb) | BLQ (LOQ:0.0 | 12) | ii i | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-31 8 | | |
| Carbon Monoxide (CO) | 1.14 | | 4 | mg/m³ | CPC8 Guidelines, Volume II, 3 | 7/2012-13, Page no 16:2013 | |
| Ammonia (NH ₃) | BLQ (LOQ:20 | 0) | 400 | µg/m³ | CPC8 Guidelines, Volume I 36/2012-13, Page no 35: 2013 | | |

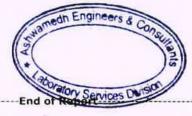
BLQ Below Limit of Quantification, LOQ: Limit of Quantification

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide. Nitrogen Dioxide. PM_{in}, PM_{2/8}, Lead and Ammonia, I hour TWA in case of Carbon Monoxide

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Note:

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AMBIENT AIR OUALITY MONITORING REPORT

| Sample ID: AA/09/22/5575 | Report No. AA/09/22/5575 | Report Date | 24/09/2022 |
|----------------------------|--|---|--------------------------------|
| Name & Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internation 1º Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra. | ial Airport, | 4 26 |
| Sampling done by | Laboratory | Sample Description, Type | Ambient Air |
| Sampling Location | OWC Kurla | Date-Sampling | 15/09/2022 to 16/09/2022 |
| Sample Quantity/Packing | PM ₁₀ , Lead: 1 x 3 no. Filter paper PM _{2.5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder | t, Lead: 1 x 3 no. Filter paper s: 1 x 1 no. Filter paper 30 ml x 6 no. plastic bottle 30 ml x 6 no. plastic bottle 10 ml x 24 no. plastic bottle | |
| Sampling Procedure | As per Method Reference | Date-Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date-Completion of Analysis | 24/09/2022 |
| Sampling Equipment II) | AEC/TH/RDS-04 | Calibration Certificate No. | ECL/AEC/2020- 21/FLOW/3938/ |

| Mete | orological D | Data / E | nviron | nenta | Conditions | | |
|---|----------------------|----------|--------------------------|-------|--|----------------------------|--|
| Average Wind velocity 11 km/h | Wind Direction SW | | : Humidity n.):86/80% | (Ma | Temperature x./Min.)30/26°C | Duration of Survey 24 h | |
| Parameter | Result | S | NAAQS# 2009 | Unit | Me | ethod | |
| Chemical Testing; Group: | Atmospheric Poli | lution | | | | | |
| Sulphur Dioxide (SO ₂) | 8.4 | | 80 | µg/m³ | IS 5/82 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO2) | 17.4 | | 80 | μg/m³ | IS 5182 (Part 6) 2006 | | |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | 61 | | 100 | µg/m³ | IS 5182 (Part 23) 2006 | | |
| Particulate Matter (size less than 2.5 µm) or PM _{2.5} | 28 | | 60 | µg/m³ | CPCB Guidelines, Volume 1,36/2012 13, Page no 15: 2013 | | |
| Lead (Pb) | BLQ (LOQ:0.0 | 02) | ı | µg/m³ | EPA/625/R-96/010 a Compendium Method 10-3.1 6 3.2 | | |
| Carbon Monoxide (CO) | 1.51 | | 4 | mg/m³ | CPC8 Guidelines, Valume II, 3 | 7/2012-13, Page no 16:2013 | |
| Ammonia (NH ₃) | BLQ (LOQ:20 | 0) | 400 | µg/m³ | CPCB Guidelines, Volume 1.36/2012-13. Page no 35: 2013 | | |

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

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₉, PM_{2,5} Lead and Ammonia, I hour TWA in case of Carbon Monoxide

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Note:

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









AMBIENT AIR QUALITY MONITORING REPORT

| Sample ID AA/09/22/5576 | Report No - AA/09/22/5576 | Report Date | 24/09/2022 |
|----------------------------|---|-----------------------------|--------------------------------|
| Name & Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj International 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. | Airport, | |
| Sampling done by | Laboratory | Sample Description Type | Ambient Air |
| Sampling Location | Sarvodaya Hospital (Ghatkopar) | Date-Sampling | 15/09/2022 to 16/09/2022 |
| Sample Quantity/ Packing | PM ₁₀ , Lead: 1 x 3 no. Filter paper PM _{2,5} : 1 x 1 no. Filter paper SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle CO:1 no. bladder each | Date-Receipt of Sample | 17/09/2022 |
| Sampling Procedure | As per Method Reference | Date-Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date-Completion of Analysis | 24/09/2022 |
| Sampling Equipment ID | AEC/TH/RDS-05 | Calibration Certificate No. | ECL/AEC/2020- 21/FLOW/3934A |

| Mete | orological D | ata / E | nvironr | nenta | I Conditions | | |
|---|---------------------|---------|-----------------|-------|---|----------------------------|--|
| Average Wind velocity 11 km/h | Wind Direction Rela | | lative Humidity | | Temperature x./Min.)30/26°C | Duration of Survey 24 h | |
| Parameter | Results | | NAAQS # 2009 | Unit | М | ethod | |
| Chemical Testing; Group: | Atmospheric Poll | lution | | | | | |
| Sulphur Dioxide (SO ₂) | 9.4 | | 80 | μg/m³ | IS 5182 (Part 2): 2001 | | |
| Nitrogen Dioxide (NO2) | 15.9 | | 80 | µg/m³ | IS 5182 (Part 6): 2006 | | |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | 59 | * | 100 | µg/m³ | IS 5182 (Part 23), 2006 | | |
| Particulate Matter (size less than 2.5 µm) or PM _{2.5} | 26 | | 60 | µg/m³ | CPCB Guidelines, Volume 1,36/2012-13, Page no.15: 2013 | | |
| Lead (Pb) | BLQ (LOQ:0.0 | 02) | 1 | μg/m³ | EPA/625/R-96/610 a Compendium Method IO-3.1 & 3.2 | | |
| Carbon Monoxide (CO) | 1.0 | | 4 | mg/m³ | CPCB Guidelines, Volume II, 37/2012-13, Page no.16:2013 | | |
| Ammonia (NH ₃) | BLQ (LOQ:20 | 0) | 400 | µg/m³ | CPCB Guidelines, Volume I 36/2012-13. Page no.35: 2013 | | |

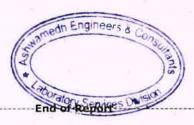
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA Time Weighted Average

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

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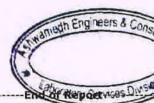
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NOISE LEVEL MEASUREMENT REPORT

| | TOTOL LETTER TIETOTTE | | |
|------------------------------|--|--------------------------|-------------------------------------|
| Sample ID: N/06/22/3446 | Report No. N/06/22/3446N | 27/06/2022 | |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | |
| Monitoring Done By | Laboratory | Sample Description /Type | CA Terminal Gate No.8 DG 125 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 21/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| | | - 4 | So | und Level dB | (A) Fast Respo | nse | Disc. |
|----------|-----------------|-----------|---------|--------------|----------------|---------|------------|
| Sr No | Location | Time (h) | A | Inside | В | Outside | Difference |
| CA Termi | nal Gate No.8 D | G 125 kVA | | | | | |
| 1 | East | 11:00 | A1 | 79 | B1 | 54 | 25 |
| 2 | West | 11:05 | A2 | 82 | B2 | 56 | 26 |
| 3 | South | 11:10 | A3 | 80 | В3 | 55 | 25 |
| 4 | North | 11:20 | A4 | 83 | B4 | 58 | 25 |
| | | | Average | 81 | Average | 55.75 | 25.25 |

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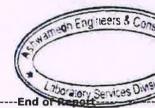
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NOISE LEVEL MEASUREMENT REPORT

| Sample ID: N/06/22/3453 | Report No. N/06/22/3453N Report Date | | 05/04/2022 |
|------------------------------|--|--------------------------|-----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | |
| Monitoring Done By | Laboratory | Sample Description /Type | MLCP Building DG 380 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 30/03/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| Sr No | | | Soi | Sound Level dB (A) Fast Response | | | |
|---------|------------------|-------------------|---------|----------------------------------|---------|---------|------------|
| | Location | Location Time (h) | A | Inside | В | Outside | Difference |
| MLCP Bu | ilding DG 380 k\ | /A | | | 24 | | |
| 1 | East | 1100 | A1 | 76 | B1 | 50 | 26 |
| 2 | West | 1105 | A2 | 78 | B2 | 54 | 24 |
| 3 | South | 1110 | A3 | 75 | B3 | 50 | 25 |
| 4 | North | 1120 | A4 | 77 | B4 | 51 | 26 |
| | | | Average | 76.5 | Average | 51.25 | 25.25 |

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



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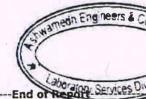
NOISE LEVEL MEASUREMENT REPORT

| | HOISE ELVEL MEASURE | CEIVE ICE OIL | |
|------------------------------|--|--------------------------|------------------------------------|
| Sample ID: N/06/22/3452 | Report No. N/06/22/3452N Report Date | | 30/06/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | |
| Monitoring Done By | Laboratory | Sample Description /Type | T-1A Power House DG III 625 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 22/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date, | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| Sr No | | | Soi | and Level dB | (A) Fast Respo | nse | Difference |
|----------|----------------|-----------|---------|--------------|----------------|---------|------------|
| | Location | Time (h) | A | Inside | В | Outside | Difference |
| T-1A Pov | er House DG II | I 625 kVA | | | | | |
| 1 | East | 11:00 | A1 | 78 | B1 | 53 | 25 |
| 2 | West | 11:05 | A2 | 82 | B2 | 56 | 26 |
| 3 | South | 11:10 | A3 | 81 | В3 | 56 | 25 |
| 4 | North | 11:20 | A4 | 79 | B4 | 54 | 25 |
| | | | Average | 80 | Average | 54.75 | 25.25 |

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NOISE LEVEL MEASUREMENT REPORT

| Sample ID: N/06/22/3448 | Report No. N/06/22/3448N | R | eport Date | 27/06/2022 |
|------------------------------|---|-----------------|------------|-----------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | | |
| Monitoring Done By | ing Done By Laboratory | | escription | T-1C Power House DG II 625 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | | 21/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument | Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument | l ID | VI-EQP-61 |

| Sr No | | | Sou | and Level dB | (A) Fast Respo | nse | Difference |
|----------|----------------|----------|---------|--------------|----------------|---------|------------|
| | Location | Time (h) | A | Inside | В | Outside | Difference |
| T-1C Pow | er House DG II | 625 kVA | | | | | |
| 1 | East | 1100 | A1 | 82 | B1 | 56 | 26 |
| 2 | West | 1105 | A2 | 85 | B2 | 60 | 25 |
| 3 | South | 1110 | A3 | 83 | B3 | 59 | 24 |
| 4 | North | 1120 | A4 | 84 | B4 | 58 | 26 |
| | | | Average | 83.5 | Average | 58.25 | 25.25 |

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NOISE LEVEL MEASUREMENT REPORT

| | MOISE ELVEE MEASONEM | TEITT ICEI OICE | |
|------------------------------|--|------------------|-----------------------------------|
| Sample ID: N/06/22/3447 | Report No. N/06/22/3447 | Report Date | 27/06/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | 3 |
| Monitoring Done By | Laboratory Sample Descri | | T-1C Power House DG I 1010 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 21/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| C. N. | | Time (1) | Soi | Sound Level dB (A) Fast Response | nse | Difference | |
|----------------|---------------|----------|---------|----------------------------------|---------|------------|------------|
| Sr No Location | Location | Time (h) | A | Inside | 8 | Outside | Difference |
| T-1C Pow | er House DG I | LO10 kVA | | | | | |
| 1 | East | 11:00 | A1 | 84 | B1 | 58 | 26 |
| 2 | West | 11:05 | A2 | 85 | B2 | 60 | 25 |
| 3 | South | 11:10 | A3 | 82 | В3 | 55 | 27 |
| 4 | North | 11:20 | A4 | 84 | B4 | 59 | 25 |
| | | | Average | 83.75 | Average | 58 | 25.75 |

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NOISE LEVEL MEASUREMENT REPORT

| Sample ID: N/06/22/3449 | Report No. N/06/22/3449N | Report E | ate | 30/06/2022 |
|------------------------------|---|------------------|-----|-------------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | | |
| Monitoring Done By | Laboratory | Sample Descripti | on | T-1C Power House DG III 1010 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | | 21/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Mode | | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | | VI-EQP-61 |

| Sr No Location | 7 4 | | Sou | und Level dB | (A) Fast Respo | nse | 2.00 |
|-------------------|----------------|------------|---------|--------------|----------------|------------|-------|
| | Time (h) | A | Inside | В | Outside | Difference | |
| T-1C Pow | er House DG II | I 1010 kVA | | | | | |
| 1 | East | 11:00 | A1 | 86 | B1 | 61 | 25 |
| 2 | West | 11:05 | A2 | 88 | B2 | 61 | 27 |
| 3 | South | 11:10 | A3 | 87 | В3 | 61 | 26 |
| 4 | North | 11:20 | A4 | 86 | B4 | 61 | 25 |
| | | | Average | 86.75 | Average | 61 | 25.75 |

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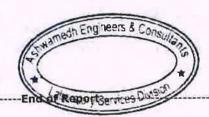
NOISE LEVEL MEASUREMENT REPORT

| | HOISE ELVEL MEASURE! | | |
|------------------------------|--|-----------------------------|------------------------------------|
| Sample ID: N/06/22/3450 | Report No. N/06/22/3450N | Report Date | 30/06/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airp First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | Tr g |
| Monitoring Done By | Laboratory | Sample Description /Type | T-1C Power House DG IV 2500 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 22/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| Sr No | | | Sot | Sound Level dB (A) Fast Response | Difference | | |
|----------|-----------------|----------|---------|----------------------------------|------------|---------|------------|
| | Location T | Time (h) | A | Inside | В | Outside | Difference |
| T-1C Pov | ver House DG IV | 2500 kVA | | | | | |
| 1 | East | 11:00 | A1 | 88 | B1 | 64 | 24 |
| 2 | West | 11:05 | A2 | 89 | B2 | 63 | 26 |
| 3 | South | 11:10 | A3 | 86 | В3 | 61 | 25 |
| 4 | North | 11:20 | A4 | 87 | B4 | 62 | 25 |
| | | | Average | 87.5 | Average | 62.5 | 25 |

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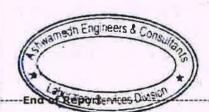
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NOISE LEVEL MEASUREMENT REPORT

| Sample ID: N/06/22/3451 | Report No. N/06/22/3451N | Report Date | 30/06/2022 |
|------------------------------|---|--------------------------|----------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E Mumbai - 400099 | ort, | |
| Monitoring Done By | Laboratory | Sample Description /Type | T-1A Power House DG I 625 kVA |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date-Monitoring | 22/06/2022 |
| Calibration Certificate | CC/ECL/1534/20-21 | Instrument Model | SLM 1699 |
| Consent Number & Date. | Format 1.0/BO/CAC-Ce11/UAN No. 0000046050/5th CAC-1811001379 Dated.29.11.2018 | Instrument ID | VI-EQP-61 |

| Sr No Location | 170 | | Sou | D.CC | | | |
|----------------|----------------|---------|---------|-------|---------|------------|------|
| | Time (h) | A | Inside | В | Outside | Difference | |
| T-1A Pov | ver House DG I | 525 kVA | | | | | |
| 1 | East | 11:00 | A1 | 80 | B1 | 56 | 24 |
| 2 | West | 11:05 | A2 | 78 | B2 | 53 | 25 |
| 3 | South | 11:10 | A3 | 81 | В3 | 54 | 27 |
| 4 | North | 11:20 | A4 | 80 | B4 | 54 | 26 |
| | | | Average | 79.75 | Average | 54.25 | 25.5 |

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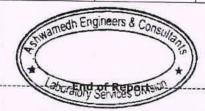
STACK EMISSION MONITORING REPORT

| Sample ID: SA/06/22/0646 Report No.: SA/06/22/0646 | | Report Date | 28/06/2022 | |
|--|--|------------------------------|----------------|--|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | t, | | |
| Sampling done by | Laboratory | Sample Description / Type | Stack Emission | |
| Sample Quantity/Packing | PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle | Date - Sampling | 21/06/2022 | |
| | NO ₂ : 25 ml x 1 no. plastic bottle | Date - Receipt of Sample | 23/06/2022 | |
| Sampling Procedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 | |
| Order Reference W.O. No. 4600005756 dated 08.07.2021 | | Date -Completion of Analysis | 27/06/2022 | |
| Calibration Certificate No. | ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 | |

| Stack Details | | | | | | | | |
|------------------------------------|-----------------|-------------------------------|--------|--------------------------|--|--|--|--|
| ~Stack Identity | CA Terminal (| CA Terminal Gate No. 8 | | | | | | |
| ~Stack attached to | D G Set 125 | KVA | | | | | | |
| ~Material of construction | MS | | | | | | | |
| ~Stack height above ground level | 12 m | | | | | | | |
| ~Stack diameter | 0.10 m | | | | | | | |
| ~Stack shape at top | Round | | | | | | | |
| ~Type of Fuel | Diesel | | | | | | | |
| ~Fuel Consumption | 24 L/h | | | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | | | |
| Chemical Testing; Group: Atmosp | heric Pollution | | | | | | | |
| Flue Gas Temperature | 122 | | οС | IS II255 (Part 3):2008 | | | | |
| Flue Gas Velocity | 10.72 | | m/s | IS II 255 (Part 3):2008 | | | | |
| Flue Gas Flow Rate | 218 | | Nm³/h | IS II255 (Part 3):2008 | | | | |
| Particulate Matter (PM) | 18 | 150 | mg/Nm³ | IS II255 (Part I):1985 | | | | |
| Sulphur Dioxide (SO ₂) | 8.42 | Not Specified | mg/Nm³ | IS 11255 (Part 2):1985 | | | | |
| Sulphur Dioxide (SO2) | 0.044 | Net Carrier d | | IS 11255 (Part 2):1985 | | | | |
| Julphul Dioxide (302) | 0.044 | Not Specified | Kg/d | to treat (1 b) (2).lada | | | | |

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Oxides of Nitrogen (NO2)



Not Specified

Note:

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13.4

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IS 11255 (Part 7):1985

mg/Nm³

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





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STACK EMISSION MONITORING REPORT

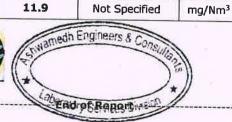
| Sample ID: SA/06/22/0647 Report No.: SA/06/22/0647 | | 28/06/2022 | |
|--|--|--|--|
| Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpo First Floor, Terminal 1B, Santacruz (E) Mumbai - 400099 | ort, | | |
| Laboratory | Sample Description / Type | Stack Emission | |
| PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle NO2: 25 ml x 1 no. plastic bottle | Date - Sampling | 21/06/2022 | |
| IS 11255 (Part 1):1985, (Part | D-4. Ct . Ct . 1 : | 23/06/2022 | |
| W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 | |
| ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 | |
| | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport First Floor, Terminal 1B, Santacruz (E) Mumbai - 400099 Laboratory PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle NO2: 25 ml x 1 no. plastic bottle IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 W.O. No. 4600005756 dated 08.07.2021 ECL/AEC-2021-22/Flow/3865A Date | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 Laboratory PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle NO2: 25 ml x 1 no. plastic bottle IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 W.O. No. 4600005756 dated 08.07.2021 ECL/AEC-2021-22/Flow/3865A Date Sample Description / Type Date - Sampling Date - Receipt of Sample Date - Start of Analysis | |

| Stack Details | | | | | | | | |
|------------------------------------|------------------------|-------------------------------|--------|------------------------|--|--|--|--|
| ~Stack Identity | D G - 2 T1C Powerhouse | | | | | | | |
| ~Stack attached to | D G 625 KVA | | | | | | | |
| ~Material of construction | MS | | | | | | | |
| ~Stack height above ground level | 22.7 m | | | | | | | |
| ~Stack diameter | 0.20 m | | | | | | | |
| ~Stack shape at top | Round | | | | | | | |
| ~Type of Fuel | Diesel | | | | | | | |
| ~Fuel Consumption | 25 L/h | | | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | | | |
| Chemical Testing; Group: Atmos | heric Pollution | | | | | | | |
| Flue Gas Temperature | 103 | | °C | IS 11255 (Part 3):2008 | | | | |
| Flue Gas Velocity | 9.20 | | m/s | IS II255 (Part 3):2008 | | | | |
| Flue Gas Flow Rate | 805 | - | Nm³/h | IS II255 (Part 3):2008 | | | | |
| Particulate Matter (PM) | 21 | 150 | mg/Nm³ | IS 11255 (Part 1):1985 | | | | |
| Sulphur Dioxide (SO ₂) | 5.71 | Not Specified | mg/Nm³ | IS II255 (Part 2):1985 | | | | |
| Sulphur Dioxide (SO2) | 0.110 | Not Specified | Kg/d | IS (1255 (Part 2):1985 | | | | |

Kavita Silewale

Oxides of Nitrogen (NO2)

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IS II255 (Part 7):1985



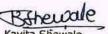


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STACK EMISSION MONITORING REPORT

| Sample ID: SA/06/22/0648 | Report No.: SA/06/22/0648 | Report Date | 28/06/2022 |
|---------------------------------|--|------------------------------|------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | | |
| Sampling done by | Laboratory | Sample Description / Type | Stack Emission |
| Sample Quantity/Packing | PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle | Date - Sampling | 21/06/2022 |
| | NO ₂ : 25 ml x 1 no. plastic bottle | Date - Receipt of Sample | 23/06/2022 |
| Sampling Procedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 |
| Calibration Certificate No. | ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 |
| Consent Number & Date: Form | at 1.0/BO/CAC-Cell/UAN No. 000004605 | 50/5th CAC-1811001379 | Dated 29.11.2018 |

| Stack Details | | | | | | |
|----------------------------------|------------------------|-------------------------------|--------|---------------------------------|--|--|
| ~Stack Identity | D G – 3 T1C Powerhouse | | | | | |
| ~Stack attached to | D G 1010 KV | A | | | | |
| ~Material of construction | MS | | | | | |
| ~Stack height above ground level | 24.7 m | | | | | |
| ~Stack diameter | 0.30 m | | | | | |
| ~Stack shape at top | Round | | | | | |
| ~Type of Fuel | Diesel | | | | | |
| ~Fuel Consumption | 55 L/h | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | |
| Chemical Testing; Group: Atmosp | heric Pollution | | - | | | |
| Fiue Gas Temperature | 132 | 1 100 | °C | IS II255 (Part 3):2008 | | |
| Flue Gas Velocity | 12.47 | 1 | m/s | IS 11255 (Part 3):2008 | | |
| Flue Gas Flow Rate | 2229 | : ●5 | Nm³/h | IS 11255 (Part 3):2008 | | |
| Particulate Matter (PM) | 19 | 150 | mg/Nm³ | IS II255 (Part I):1985 | | |
| Sulphur Dioxide (SO2) | 5.61 | Not Specified | mg/Nm³ | IS 11 25 5 (Part 2):1985 | | |
| Sulphur Dioxide (SO2) | 0.30 | Not Specified | Kg/d | IS 11255 (Part 2):1985 | | |
| Oxides of Nitrogen (NO2) | 12.3 | Not Specified | mg/Nm³ | IS 11255 (Part 7):1985 | | |



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STACK EMISSION MONITORING REPORT

| Sample Description / Type Date - Sampling | Stack Emission 22/06/2022 |
|---|-------------------------------|
| | |
| Date - Sampling | 22/06/2022 |
| Date - Receipt of Sample | 23/06/2022 |
| Date - Start of Analysis | 23/06/2022 |
| Date -Completion of Analysis | 27/06/2022 |
| Sampling Equipment ID | AEC/TH/SMK-06 |
| of | ate -Completion f Analysis |

| Stack Details | 71 | 7 | | | | |
|----------------------------------|------------------------|-------------------------------|--------|------------------------|--|--|
| ~Stack Identity | D G - 1 T1C Powerhouse | | | | | |
| ~Stack attached to | D G 1010 KV | A | | | | |
| ~Material of construction | MS | | | | | |
| ~Stack height above ground level | 24.7 m | | | | | |
| ~Stack diameter | 0.30 m | | | | | |
| ~Stack shape at top | Round | Round | | | | |
| ~Type of Fuel | Diesel | Diesel | | | | |
| ~Fuel Consumption | 55 L/h | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | |
| Chemical Testing; Group: Atmosp | heric Pollution | 7 | | | | |
| Flue Gas Temperature | 126 | (a) | °C | IS 11255 (Part 3):2008 | | |
| Flue Gas Velocity | 12.53 | (a) | m/s | IS H255 (Part 3):2008 | | |
| Flue Gas Flow Rate | 2326 | | Nm³/h | IS 11255 (Part 3):2008 | | |
| Particulate Matter (PM) | 13 | 150 | mg/Nm³ | IS 1(255 (Part I):1985 | | |

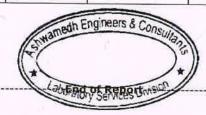
Kavita Shewale

Sulphur Dioxide (SO2)

Sulphur Dioxide (SO2)

Oxides of Nitrogen (NO2)

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Not Specified

Not Specified

Not Specified

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8.57

0.478

11.4

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Page 1 of 1

IS 11255 (Part 2):1985

IS 11255 (Part 2):1985

IS (1255 (Part 7):1985

mg/Nm³

Kq/d

mg/Nm³



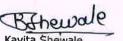


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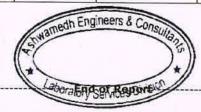
STACK EMISSION MONITORING REPORT

| Sample ID. SA/06/22/0650 | ED. SA/06/22/0650 Report No.: SA/06/22/0650 | | 28/06/2022 |
|---------------------------------|--|---|------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | t, | |
| Sampling done by | Laboratory | Sample Description / Type | Stack Emission |
| Sample Quantity/Packing | PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle | Date - Sampling Date - Receipt of Sample | 22/06/2022 |
| Sampling Procedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 |
| Calibration Certificate No. | ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 |
| Consent Number & Date: Form | nat 1.0/BO/CAC-Cell/UAN No. 000004605 | 50/5th CAC-1811001379 | Dated 29.11.2018 |

| Stack Details | | | | | | |
|------------------------------------|------------------------|---------------------------------------|--------|------------------------|--|--|
| ~Stack Identity | D G – 4 T1C Powerhouse | | | | | |
| ~Stack attached to | D G 2500 KV | 4 | | | | |
| ~Material of construction | MS | | 7. | | | |
| ~Stack height above ground level | 22.7 m | | | | | |
| ~Stack diameter | 0.30 m | | | | | |
| ~Stack shape at top | Round | | | | | |
| ~Type of Fuel | Diesel | | | | | |
| ~Fuel Consumption | 75 L/h | 75 L/h | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | |
| Chemical Testing; Group: Atmosp | heric Pollution | 1 | | | | |
| Flue Gas Temperature | 153 | Town | ٥С | IS II255 (Part 3):2008 | | |
| Flue Gas Velocity | 14.32 | | m/s | IS II255 (Part 3):2008 | | |
| Flue Gas Flow Rate | 2434 | · · · · · · · · · · · · · · · · · · · | Nm³/h | IS 11255 (Part 3):2008 | | |
| Particulate Matter (PM) | 12 | 150 | mg/Nm³ | IS 11255 (Part 1):1985 | | |
| Sulphur Dioxide (SO₂) | 8.57 | Not Specified | mg/Nm³ | IS 11255 (Part 2):1985 | | |
| Sulphur Dioxide (SO ₂) | 0.500 | Not Specified | Kg/d | IS 1(255 (Part 2):1985 | | |
| Oxides of Nitrogen (NO2) | 11.8 | Not Specified | mg/Nm³ | IS I1255 (Part 7):1985 | | |



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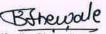


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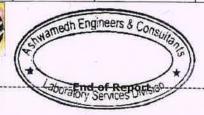
STACK EMISSION MONITORING REPORT

| SA/06/22/0651 | Report No.: SA/06/22/0651 | Report Date | 28/06/2022 |
|----------------|--|---|----------------|
| dress of | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | t, | |
| ne by | Laboratory | Sample Description / Type | Stack Emission |
| tity/Packing | PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle | Date - Sampling Date - Receipt of Sample | 22/06/2022 |
| cedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 |
| nce | W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 |
| ertificate No. | ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 |
| | | | |

| Stack Details | | | | | | | |
|------------------------------------|------------------|-------------------------------|--------|------------------------|--|--|--|
| ~Stack Identity | D G - 1 T1A | D G – 1 T1A Powerhouse | | | | | |
| ~Stack attached to | D G 625 KVA | | | | | | |
| ~Material of construction | MS | | | | | | |
| ~Stack height above ground level | 22.7 m | | | | | | |
| ~Stack diameter | 0.15 m | | | | | | |
| ~Stack shape at top | Round | | | | | | |
| ~Type of Fuel | Diesel | | | | | | |
| ~Fuel Consumption | 24 L/h | 24 L/h | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | | |
| Chemical Testing; Group: Atmos | pheric Pollution | | | | | | |
| Flue Gas Temperature | 108 | :0: | ٥С | IS 11255 (Part 3):2008 | | | |
| Flue Gas Velocity | 8.28 | | m/s | IS 11255 (Part 3):2008 | | | |
| Flue Gas Flow Rate | 402 | 59 0 | Nm³/h | IS 11255 (Part 3):2008 | | | |
| Particulate Matter (PM) | 18 | 150 | mg/Nm³ | IS 11255 (Part 1):1985 | | | |
| Sulphur Dioxide (SO ₂) | 7.14 | Not Specified | mg/Nm³ | IS 11255 (Part 2):1985 | | | |
| Sulphur Dioxide (SO ₂) | 0.068 | Not Specified | Kg/d | IS II255 (Part 2):1985 | | | |
| | | | | | | | |
| Oxides of Nitrogen (NO2) | 11.8 | Not Specified | mg/Nm³ | IS H255 (Part 7):1985 | | | |



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STACK EMISSION MONITORING REPORT

| Sample ID: SA/06/22/065 | 2 Report No.: SA/06/22/06.52 | Report Date | 28/06/2022 |
|---------------------------------|--|---|----------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji International Airpor First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | • | - |
| Sampling done by | Laboratory | Sample Description / Type | Stack Emission |
| Sample Quantity/Packing | PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle | Date - Sampling Date - Receipt of Sample | 22/06/2022 |
| Sampling Procedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 |
| Calibration Certificate No. | ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | Sampling Equipment ID | AEC/TH/SMK-06 |

| Stack Details | | | | | | |
|----------------------------------|------------------------|---------------------------------------|-------|------------------------|--|--|
| ~Stack Identity | D G - 2 T1A Powerhouse | | | | | |
| ~Stack attached to | D G 625 KVA | | | | | |
| ~Material of construction | MS | | | | | |
| ~Stack height above ground level | 22.7 m | | | | | |
| ~Stack diameter | 0.15 m | | | | | |
| ~Stack shape at top | Round | Round | | | | |
| ~Type of Fuel | Diesel | Diesel | | | | |
| ~Fuel Consumption | 24 L/h | | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | | |
| Chemical Testing; Group: Atmos | pheric Pollution | · · · · · · · · · · · · · · · · · · · | | | | |
| Flue Gas Temperature | 102 | | οС | IS 11255 (Part 3):2008 | | |
| Flue Gas Velocity | 8.37 | * | m/s | IS 1/255 (Part 3):2008 | | |
| Flue Gas Flow Rate | 413 | - | Nm³/h | IS 11255 (Part 3):2008 | | |

mg/Nm³

mg/Nm³

Kg/d

mg/Nm³

IS I1255 (Part 3):2008

IS 11255 (Part 1):1985

IS II255 (Part 2):1985

IS 11255 (Part 2):1985

IS 11255 (Part 7):1985

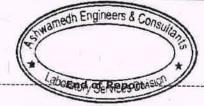
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Particulate Matter (PM)

Sulphur Dioxide (SO2)

Sulphur Dioxide (SO2)

Oxides of Nitrogen (NO₂)



150

Not Specified

Not Specified

Not Specified

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17

7.14

0.071

13

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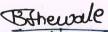




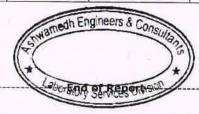
STACK EMISSION MONITORING REPORT

| Sample ID: SA/06/22/0653 | Report No.: SA/06/22/0653 | Report Date | 28/06/2022 |
|---|---|---|----------------|
| Mumbai International Airport Ltd. Name and Address of Chatrapati Shivaji International Airport, First Floor, Terminal 1B, Santacruz (E), Mumbai - 400099 | | | |
| Sampling done by | Laboratory | Sample Description / Type | Stack Emission |
| Sample Quantity/Packing | PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle | Date - Sampling Date - Receipt of Sample | 22/06/2022 |
| Sampling Procedure | IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005 | Date - Start of Analysis | 23/06/2022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date -Completion of Analysis | 27/06/2022 |
| Calibration Certificate No. ECL/AEC-2021-22/Flow/3865A Date 12.01.2022 | | Sampling Equipment ID | AEC/TH/SMK-06 |

| Stack Details | , | | | | |
|------------------------------------|-----------------|-------------------------------|--------|------------------------|--|
| ~Stack Identity | D G MLCP Bui | D G MLCP Building | | | |
| ~Stack attached to | D G 380 KVA | | | | |
| ~Material of construction | MS | 7 | | | |
| ~Stack height above ground level | 3 m | | | | |
| ~Stack diameter | 0.10 m | * | | | |
| ~Stack shape at top | Round | | | | |
| ~Type of Fuel | Diesel | | | | |
| ~Fuel Consumption | 20 L/h | | | | |
| Parameter | Result | Limits as per MPCB consent | Unit | Method | |
| Chemical Testing; Group: Atmosp | heric Pollution | | | · / | |
| Flue Gas Temperature | 112 | , * . | °C | IS 11255 (Part 3):2008 | |
| Flue Gas Velocity | 7.52 | 191 | m/s | IS II255 (Part 3):2008 | |
| Flue Gas Flow Rate | 161 | _ 1 _ 70 | Nm³/h | IS II255 (Part 3):2009 | |
| Particulate Matter (PM) | 15 | 150 | mg/Nm³ | IS 11255 (Part I):1985 | |
| Sulphur Dioxide (SO ₂) | 8.57 | Not Specified | mg/Nm³ | IS 11255 (Part 2):1985 | |
| Sulphur Dioxide (SO ₂) | 0.033 | Not Specified | Kg/d | IS II255 (Part 2):1985 | |
| Oxides of Nitrogen (NO2) | 12 | Not Specified | mg/Nm³ | IS II255 (Part 7):1985 | |



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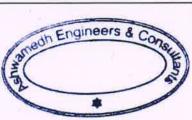
TEST REPORT

| Sample ID: E/04/22/0281 | Report No.: E/04/22/0281 | Report Date | 27/04/2022 |
|---------------------------------|---|---|------------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099,Maharashtra | ational Airport, | 9 |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 23/04/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 23/04/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 26/04/2022 |
| Consent Number & Date : FORM | nat 1.0/BO/CAC-Ce11/UAN No. 00000 | 46050/5 th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|--|------------------------|------|--|
| Chemi | ical Testing; Group: Pollution & l | Environment | | |
| 1, | рН | 6.27 | ÷. | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 87 | mg/L | IS 3025 (Part I7): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 178 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 600 | mg/L | APHA, 23 rd Ed., 5220-0, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 23 rd Ed., 5520-8, 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-C1-G,4-72 |
| BLQ: B | Selow Limit of Quantification, LOQ: L | imit of Quantification | | - |

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

Note:

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



AEC/FREP/I-A Page 1 of 1





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TEST REPORT

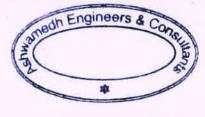
| Sample ID: E/04/22/0282 | Report No.: E/04/22/0282 | Report Date | 27/04/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Lt Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1B, Santacruz(E Mumbai-400099,Maharashtra | itional Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 1 STP RO Outlet | Date - Receipt of Sample | 23/04/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 23/04/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 26/04/2022 |
| Consent Number & Date : Form | at 1.0/BO/CAC-Ce11/UAN No. 000004 | 6050/5th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|---|---------------|-------------------------------|------|-----------------------------|
| Chem | ical Testing; Group: Pollution 8 | k Environment | | | |
| 1,, | рН | 6.28 | Not specified | 8 | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 12 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3 | Biochemical Oxygen Demand (3 days, 27°C) | 5 | 30 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 20 | 100 | mg/L | APHA, 23" Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA 237 Ed., 5520-B, 5-42 |

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

Note: Sample ID E/04/22/0282 bears two Test Reports - E/04/22/0282 and E/04/22/0282N

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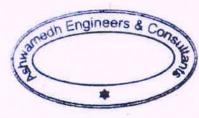
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TEST REPORT

| Sample ID: E/04/22/0282 | Report No.: E/04/22/0282N | Report Date | 27/04/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| 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 | 23/04/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 23/04/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 26/04/2022 |
| Consent Number & Date : Form | at 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 |
|---------------|---|---|-------------------------------|---------------|--------------------------------|
| Chem | nical Testing; Group: Pollution (| & Environment | | | |
| 1. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA, 23rd Ed., 4500-Cl-6,4-72 |
| BLQ: Note: | Below Limit of Quantification, LOQ Sample ID E/04/22/0282 bears to | : Limit of Quantific vo Test Reports - E | ation :/04/22/0282 and E | :/04/22/0282N | |

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TEST REPORT

| Sample ID: E/04/22/0360 | Report Date | 04/05/2022 |
|--------------------------------------|---|---|
| Chhatrapati Shivaji Maharaj Intern | ational Airport, | |
| Customer | Sample Description / Type | Untreated Sewage Effluent |
| Terminal 2 STP Inlet | Date - Receipt of Sample | 28/04/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 28/04/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 03/05/2022 |
| | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099,Maharashtra Customer Terminal 2 STP Inlet 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 Inlet Date - Receipt of Sample 2 L x 1 no. plastic can Date - Start of Analysis W.O. No. 4600005756 dated |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|--|----------------|------|--|
| Chemi | ical Testing; Group: Pollution & I | Environment | | |
| 1. | pH | 6.55 | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 72 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 381 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 1000 | mg/L | APHA, 23 rd Ed., 5220-B, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 2374 Ed., 5520-8, 5-42 |
| 6. | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-6,4-72 |

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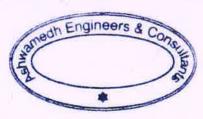
TEST REPORT

| Sample ID: E/04/22/0361 | Sample ID: E/04/22/0361 | Report Date | 04/05/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra | ational Airport, | = |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 28/04/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 28/04/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 03/05/2022 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|--|-------------|-------------------------------|-----------|--|
| Chemi | ical Testing; Group: Pollution & | Environment | | | |
| 1, | рН | 7.80 | Not specified | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 6 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 2 | 30 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23 rd Ed., 5520-8, 5-42 |
| | Below Limit of Quantification, LOQ: Sample ID E/04/22/0361 bears tw | | | 03/22/036 | 1N |

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TEST REPORT

| Sample ID: E/04/22/0361 | Report Date | 04/05/2022 |
|--------------------------------------|--|--|
| Chhatrapati Shivaji Maharaj Intern | national Airport, | |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 2 STP RO Outlet | Date - Receipt of Sample | 28/04/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 28/04/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 03/05/2022 |
| | Mumbai International Airport I 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 |
|------------|---|---------------|-------------------------------|-----------|-----------------------------|
| Chemi | ical Testing; Group: Pollution 8 | & Environment | | | |
| 1, | рН | 7.80 | Not specified | (%) | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | / 6 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 2 | 30 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 237 Ed., 5220-B, 5-18 |
| 5, | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23" Ed., SS20-B, 5-42 |
| | Below Limit of Quantification, LOQ Sample ID E/04/22/0361 bears tw | | | 03/22/036 | 1N |

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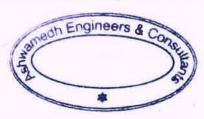
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TEST REPORT

| Sample ID: E/04/22/0361 | Sample ID: E/04/22/0361N | Report Date | 04/05/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra | ational Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 28/04/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 28/04/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 03/05/2022 |
| 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 |
|------------|--|--------------------|----------------------------------|----------------|--------------------------------|
| Chemi | ical Testing; Group: Pollution & | Environment | | | |
| 1,00 | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA, 23rd Ed., 4500-CI-6,4-72 |
| BLQ: B | elow Limit of Quantification, LOQ: | Limit of Quantific | ation | -74 | • |
| Note: 5 | Sample ID E/04/22/0361 bears two | Test Reports - E | /04/22/0361 an | d E/03/22/0361 | N |

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TEST REPORT

| Sample ID: E/08/22/0339 | Report No.: E/08/22/0339 | Report Date | 03/09/2022 |
|---------------------------------|---|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1B, Santacruz(I Mumbai-400099,Maharashtra | ational Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 31/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 31/08/2022 |
| Order Reference: | S.O. No. 5700313365 dated 12.08.2022 | Date - Completion of Analysis | 03/09/2022 |
| Consent Number & Date: Formo | at 1.0/CAC/UAN No. 0000111260/CR/220 | 05000810 Dated 13.05.2022 | |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|---|-------------------|----------------------|--|
| Chemi | ical Testing; Group: Pollution & Env | rironment | | , t |
| 1 | рН | 6.30 | · | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 78 | mg/L | IS 3025 (Part I7): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 138 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 480 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Ammonical Nitrogen (as NH3-N) | 30 | mg/L | APHA, 23rd Ed., 4500 NH3, B & C, 4 -114, 4-116 |
| Biolog | gical Testing; Group: Pollution & En | vironment | | |
| 6. | Faecal Coliforms | 70 | MPN Index /100 ml | APHA, Z3rd Ed., 9221-E, 9-77: 2017 |
| Note: 5 | Sample ID E/08/22/0339 bears two Tes | st Reports - E/08 | 3/22/0339 and E/ | 08/22/0339N |

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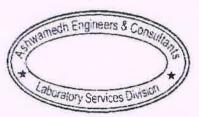
TEST REPORT

| Sample ID: E/08/22/0339 | Report No.: E/08/22/0339N | Report Date | 03/09/2022 |
|---------------------------------|---|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltc Chhatrapati Shivaji Maharaj Internal 1st Floor, Terminal 1B, Santacruz(E) Mumbai-400099,Maharashtra | tional Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 31/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 31/08/2022 |
| Order Reference: | S.O. No. 5700313365 dated 12.08.2022 | Date - Completion of Analysis | 03/09/2022 |
| Consent Number & Date: Formo | at 1.0/CAC/UAN No. 0000111260/CR/2205 | 5000810 Dated 13.05.2022 | |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|------------------------------------|----------------------|---------------|---|
| Chem | ical Testing; Group: Pollution & E | nvironment | | 4 |
| 1. | Total Nitrogen (as N) | 33 | mg/L | APHA. 23rd Ed., 4500-NH3, F, 4-119:2017 |
| Note: | Sample ID E/08/22/0339 bears two | Test Reports - E/08/ | 22/0339 and E | -/08/22/0339N |

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TEST REPORT

| Sample ID: E/08/22/0340 | Report No.: E/08/22/0340 | Report Date | 03/09/2022 |
|---------------------------------|---|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | nal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 31/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 31/08/2022 |
| Order Reference: | S.O. No. 5700313365 dated 12.08.2022 | Date - Completion of Analysis | 03/09/2022 |
| Consent Number & Date: Formo | at 1.0/CAC/UAN No. 0000111260/CR/22050 | 00810 Dated 13.05.2022 | |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|--|------------------|----------------------------------|----------------------|--|
| Chen | nical Testing; Group: Pollution & | Environment | | | |
| 1. | pH | 7.29 | 5.5 – 9.0 | 20 | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 10 | 20 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 8 | 10 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 40 | 50 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Ammonical Nitrogen (as NH3-N) | BLQ (LOQ:0.1) | 5 | mg/L | APHA, 23rd Ed., 4500 NH3, 8 & C, 4 -114, 4-116 |
| Biolo | gical Testing; Group: Pollution 8 | & Environment | | W | |
| 6. | Faecal Coliforms | 11 | less than 100 | MPN Index /100 ml | APHA, 23rd Ed., 9221-E, 9-77: 2017 |
| | Below Limit of Quantification, LOQ: Sample ID E/08/22/0340 bears tw | | | nd E/08/22/03 | 340N |

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







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TEST REPORT

| Sample ID: E/08/22/0340 | Report No.: E/08/22/0340N | Report Date | 03/09/2022 |
|---------------------------------|---|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | onal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 31/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 31/08/2022 |
| Order Reference: | S.O. No. 5700313365 dated 12.08.2022 | Date - Completion of Analysis | 03/09/2022 |
| Consent Number & Date: Formo | at 1.0/CAC/UAN No. 0000111260/CR/22050 | 00810 Dated 13.05.2022 | • |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|---------------|--|---------------------------------------|-------------------------------------|------------|---|
| Chem | nical Testing; Group: Pollutio | n & Environmer | nt | | 11 |
| 1. | Total Nitrogen (as N) | 2.24 | 10 | mg/L | APHA. 23rd Ed., 4500-NH3, F, 4-119:2017 |
| BLQ: Note: | Below Limit of Quantification, L Sample ID E/08/22/0340 bears | OQ: Limit of Quar two Test Reports | ntification s - E/08/22/0340 and | E/08/22/03 | 40N |



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TEST REPORT

| Sample ID: E/08/22/03 | Report No.: E/08/22/03 | Report Date | 12/08/2022 |
|---------------------------------|--|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra | ational Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : For | mat 1.0/BO/CAC-Ce11/UAN No. 00000 | 46050/5th CAC-1811001379 Da | ted.29.11.2018 |

| Parameter | Result | Unit | Method |
|--|---|---|---|
| al Testing; Group: Pollution & E | invironment | | |
| рН | 7.04 | - F | IS 3025 (Part II):1983 |
| Total Suspended Solids | 98 | mg/L | IS 3025 (Part 17): 1984 |
| Biochemical Oxygen Demand (3 days, 27°C) | 352 | mg/L | IS 3025 (Part 44): 1993 |
| Chemical Oxygen Demand | 1000 | mg/L | APHA, 23 rd Ed., 5220-B, 5-18 |
| Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 23 rd Ed., 5520-8, 5-42 |
| Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-G.4-72 |
| Ammonical Nitrogen (as NH3-N) | 7.2 | mg/L | APHA. 23rd Ed., 4500 NH3, B & C, 4 -114, 4-116 |
| cal Testing; Group: Pollution & I | Environment | 1 | |
| Faecal Coliforms | 33 | MPN Index /100 ml | APHA, 23rd Ed., 9221-E, 9-77: 2017 |
| | pH Total Suspended Solids Biochemical Oxygen Demand (3 days, 27°C) Chemical Oxygen Demand Oil & Grease Free Residual Chlorine (as Cl ₂) Ammonical Nitrogen (as NH3-N) cal Testing; Group: Pollution & I | ral Testing; Group: Pollution & Environment pH 7.04 Total Suspended Solids 98 Biochemical Oxygen Demand (3 days, 27°C) 352 Chemical Oxygen Demand 1000 Oil & Grease BLQ (LOQ:1) Free Residual Chlorine (as Cl ₂) BLQ (LOQ:0.05) Ammonical Nitrogen (as NH3-N) 7.2 cal Testing; Group: Pollution & Environment | ral Testing; Group: Pollution & Environment pH 7.04 Total Suspended Solids 98 mg/L Biochemical Oxygen Demand 352 mg/L Chemical Oxygen Demand 1000 mg/L Oil & Grease BLQ (LOQ:1) mg/L Free Residual Chlorine (as Cl ₂) BLQ (LOQ:0.05) mg/L Ammonical Nitrogen (as NH3-N) 7.2 mg/L cal Testing; Group: Pollution & Environment Faecal Coliforms 33 MPN Index /100 ml |

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TEST REPORT

| Sample ID: E/08/22/03 | Report No.: E/08/22/03N | Report Date | 12/08/2022 |
|---------------------------------|---|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099,Maharashtra | national Airport, | 4 |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : For | mat 1.0/BO/CAC-Ce11/UAN No. 00000 | 046050/5th CAC-1811001379 Dat | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|----------------------------------|-------------|------|---|
| Chem | ical Testing; Group: Pollution & | Environment | | |
| 1. | Total Nitrogen (as N) | 217 | mg/L | APHA. 23rd Ed., 4500-NH3, F. 4-119:2017 |

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TEST REPORT

| Sample ID: E/08/22/04 | Report No.: E/08/22/04 | Report Date | 12/08/2022 |
|---------------------------------|---|---|----------------------------|
| Name and Address of Customer | Mumbai International Airport Li Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1B, Santacruz(E 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 | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : Fori | mat 1.0/BO/CAC-Ce11/UAN No. 000004 | 16050/5 th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|--|-------------------|----------------------------------|----------------------|--|
| Cher | nical Testing; Group: Pollution 8 | k Environment | | | |
| 1, | pH | 6.80 | 5.5 - 9.0 | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 8 | 20 | mg/L | IS 3025 (Part I7): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 3 | 10 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 50 | mg/L | APHA, 23 rd Ed., 5220-B, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23 rd Ed., 5520-8, 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | Not specified | mg/L | APHA, 23rd Ed., 4500-CI-G,4-72 |
| 7. | Ammonical Nitrogen (as NH3-N) | 0.8 | 5 | mg/L | APHA. 23rd Ed., 4500 NH3, B & C, 4 -114, 4-116 |
| Biolo | gical Testing; Group: Pollution 8 | & Environment | | | |
| 8. BLQ: | Faecal Coliforms | <1.8 | less than 100 | MPN Index /100 ml | APHA, 23rd Ed., 9221-E, 9-77; 2017 |

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TEST REPORT

| Sample ID: E/08/22/0 5 | Report No.: E/08/22/05 | Report Date | 12/08/2022 |
|---------------------------------|---|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099,Maharashtra | ational Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : For | mat 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 & E | nvironment | | |
| 1. | рН | 6.53 | 120 | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 82 | mg/L | IS 3025 (Part I7): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 200 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 580 | mg/L | APHA, 23rd Ed., 5220-B, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 23rd Ed., 5520-B, 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-G,4-72 |
| 7. | Ammonical Nitrogen (as NH3-N) | 1.3 | rng/L | APHA. Z3rd Ed., 4500 NH3, 8 & C, 4 -114, 4-116 |
| Biolog | ical Testing; Group: Pollution & I | Environment | ~ . | Y |
| 8. | Faecal Coliforms | 27 | MPN Index /100 ml | APHA, 23rd Ed., 9221-E, 9-77; 2017 |

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TEST REPORT

| Sample ID: E/08/22/05 | Report No.: E/08/22/05N | Report Date | 12/08/2022 |
|---------------------------------|--|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport L Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(Mumbai-400099, Maharashtra | ational Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : Forr | mat 1.0/BO/CAC-Ce11/UAN No. 00000 | 46050/5th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|-----------------------------------|-------------|------|---|
| Chem | nical Testing; Group: Pollution 8 | Environment | | |
| 1. | Total Nitrogen (as N) | 66.4 | mg/L | APHA, 23rd Ed., 4500-NH3, F. 4-119:2017 |



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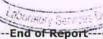
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TEST REPORT

| Report No.: E/09/22/3005N | Report Date | 21.09.2022 |
|--------------------------------------|--|--|
| Chhatrapati Shivaji Maharaj Inter | national Airport, | |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 1 STP RO Outlet | Date - Receipt of Sample | 09/09/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 09/09/2022 |
| S.O. No. 5700313365 dated 12.08.2022 | Date - Completion of Analysis | 20/09/2022 |
| | Mumbai International Airport Chhatrapati Shivaji Maharaj Inter 1st Floor, Terminal 1B, Santacruz Mumbai-400099,Maharashtra Customer Terminal 1 STP RO Outlet 2 L x 1 no. plastic can S.O. No. 5700313365 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 S.O. No. 5700313365 dated Date - Completion of Analysis |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method | | |
|--|--|--------|-------------------------------|------|--------|--|--|
| Chem | Chemical Testing; Group: Pollution & Environment | | | | | | |
| 1. Total Nitrogen (as N) 5.27 10 mg/L APHA 23rd Ed., 4500-NH3, F, 4-119-2017 | | | | | | | |

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TEST REPORT

| Sample ID: E/08/22/06 | Report No.: E/08/22/06 | Report Date | 12/08/2022 |
|---------------------------------|--|--|----------------------------|
| Name and Address of Customer | Mumbai International Airport Lt Chhatrapati Shivaji Maharaj Interna 1st Floor, Terminal 1B, Santacruz(E Mumbai-400099,Maharashtra | tional Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date : Fori | mat 1.0/BO/CAC-Ce11/UAN No. 000004 | 6050/5 th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|--|-------------------|----------------------------------|----------------------|--|
| Chen | nical Testing; Group: Pollution 8 | k Environment | | | |
| 1. | рН | 5.80 | 5.5 - 9.0 | 8 | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 9 | 20 | mg/L | IS 3025 (Part I7): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 3 | 10 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 50 | mg/L | APHA, 23 rd Ed., 5220-B, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23rd Ed., 5520-8, 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | Not specified | mg/L | APHA, 23rd Ed., 4500-C1-G,4-72 |
| 7. | Ammonical Nitrogen (as NH3-N) | 0.2 | 5 | mg/L | APHA, 23rd Ed., 4500 NH3, B & C, 4 -114, 4-116 |
| Biolo | gical Testing; Group: Pollution 8 | & Environment | | | |
| 8. | Faecal Coliforms | <1.8 | less than 100 | MPN Index /100 ml | APHA, 23rd Ed., 9221-E, 9-77: 2017 |

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TEST REPORT

| Sample ID: E/08/22/06 | Report No.: E/08/22/06N | Report Date | 12/08/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| 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 | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 01/08/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 01/08/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 11/08/2022 |
| Consent Number & Date: Fori | mat 1.0/BO/CAC-Ce11/UAN No. 00000 | 46050/5th CAC-1811001379 Da | ted 29 11 2018 |

Limits as per **Parameter** Result No. Unit Method **MPCB** Consent Chemical Testing; Group: Pollution & Environment Total Nitrogen (as N) 1. 10 mg/L APHA, 23rd Ed., 4500-NH3, F, 4-II9:2017 BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/08/22/06 bears two Test Reports - E/08/22/06 and E/08/22/06N

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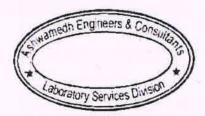
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TEST REPORT

| Sample ID: E/06/22/0348 | Report No.: E/06/22/0348 | Report Date | 29/06/2022 |
|---------------------------------|--|--------------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | onal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminał 1 STP Inlet | Date - Receipt of Sample | 25/06/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 28/06/2022 |
| Consent Number & Date : Form | at 1.0/BO/CAC-Ce11/UAN No. 00000460 | 50/5 th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|--|------------------------|-------------|--|
| Chemi | ical Testing; Group: Pollution & I | Environment | | |
| 1. | рН | 8.05 | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 120 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 173 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 480 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 23rd Ed., 5520-B, 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-6,4-72 |
| BLQ: B | selow Limit of Quantification, LOQ: L | imit of Quantification | | |

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TEST REPORT

| Sample ID: E/06/22/0349 | Report No.: E/06/22/0349 | Report Date | 29/06/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 1 STP RO Outlet | Date - Receipt of Sample | 25/06/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 28/06/2022 |
| Consent Number & Date : Form | at 1.0/BO/CAC-Ce11/UAN No. 00000460 | 50/5th CAC-1811001379 Dat | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|---|-------------|-------------------------------|------|--|
| Chem | ical Testing; Group: Pollution 8 | Environment | | | |
| 1,, | рН | 3.38 | Not specified | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 8 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 3 | 30 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23" Ed., 5520-B, 5-42 |

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TEST REPORT

| Report No.: E/06/22/0349N | Report Date | 29/06/2022 |
|--------------------------------------|---|---|
| Chhatrapati Shivaji Maharaj Internat | ional Airport, | |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 1 STP RO Outlet | Date - Receipt of Sample | 25/06/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 28/06/2022 |
| | Mumbai International Airport Ltc Chhatrapati Shivaji Maharaj Internat 1st Floor, Terminal 1B, Santacruz(E) 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 | |
|--|---|----------------------|-------------------------------|---------------|--------------------------------|--|
| Chemical Testing; Group: Pollution & Environment | | | | | | |
| 1. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA. 23rd Ed., 4500-C1-G,4-72 | |
| BLQ: I Note: | Below Limit of Quantification, LOQ Sample ID E/06/22/0349 bears tw | : Limit of Quantific | tation E/06/22/0349 and E | :/06/22/0349N | | |



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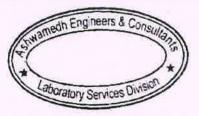
TEST REPORT

| Sample ID: E/06/22/0350 | Sample ID: E/06/22/0350 | Report Date | 29/06/2022 | | |
|--|-------------------------------------|---------------------------|------------------------------|--|--|
| Name and Address of Customer Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | | | | | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent | | |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 25/06/2022 | | |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 | | |
| Order Reference: W.O. No. 4600005756 dated | | | | | |
| Consent Number & Date : Form | at 1.0/BO/CAC-Ce11/UAN No. 00000460 | 50/5th CAC-1811001379 Da | ted.29.11.2018 | | |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|--|----------------|------|--|
| Chemi | ical Testing; Group: Pollution & E | invironment | | |
| 1, | рН | 8.11 | *** | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 88 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 223 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 600 | mg/L | APHA, 23 rd Ed., 5220-B, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA, 23 rd Ed., 5520-B, 5-42 |
| 6. | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-G,4-72 |
| | Below Limit of Quantification, LOQ: L | | | |

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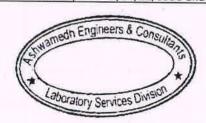
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TEST REPORT

| Sample ID: E/06/22/0351 | Sample ID: E/06/22/0351 | Report Date | 29/06/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz(E), Mumbai-400099,Maharashtra | | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 25/06/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 28/06/2022 |
| Consent Number & Date : Form | at 1.0/BO/CAC-Ce11/UAN No. 00000460 | 50/5th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|---|---------------|-------------------------------|------|--|
| Chem | ical Testing; Group: Pollution (| & Environment | | | |
| 1. | рН | 7.21 | Not specified | | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 12 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 3 | 30 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 23 rd Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23 rd Ed., 5520-B, 5-42 |

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Page 1 of 1



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TEST REPORT

| Sample ID: E/06/22/0351 | Sample ID: E/06/22/0351N | Report Date | 29/06/2022 |
|---------------------------------|---|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1st Floor, Terminal 1B, Santacruz(E) Mumbai-400099,Maharashtra | ional Airport, | 5 1 |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 25/06/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 25/06/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 28/06/2022 |
| Consent Number & Date : Form | nat 1.0/BO/CAC-Ce11/UAN No. 0000046 | 050/5th CAC-1811001379 Da | ted.29.11.2018 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|-------------------|---|--|----------------------------------|----------------|--------------------------------|
| Chemi | ical Testing; Group: Pollution & | Environment | | | |
| 140 | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA, 23rd Ed., 4500-CI-G,4-72 |
| BLQ: B Note: 9 | selow Limit of Quantification, LOQ: Sample ID E/06/22/0351 bears two | Limit of Quantific Test Reports - E | ation /06/22/0351 an | d E/06/22/0351 | N |



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TEST REPORT

| Sample ID E/05/22/0345 | Report No. E/05/22/0345 | Report Date | 01/06/2022 |
|---------------------------------|---|-------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Chhatrapati Shivaji Maharaj Interi 1st Floor, Terminal 1B, Santacruz Mumbai-400099, Maharashtra | national Airport, | h |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 26/05/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 26/05/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |
| Consent Number & Date Fort | 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 & | Environment | | *************************************** |
| 1, | рН | 6.32 | 17) | IS 3025 (Part II):IS83 |
| 2. | Total Suspended Solids | 130 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 471 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 1200 | mg/L | APHA, 23" Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA 23" Ed. 5520-8. 5-42 |
| 6. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | mg/L | APHA 23rd Ed. 4500-CI-6.4-72 |

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TEST REPORT

| Sample ID: E/05/22/0346 | Report No.: E/05/22/0346 | Report Date | 01/06/2022 |
|---------------------------------|---|-------------------------------|----------------------------|
| 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 | Treated Sewage Effluent |
| Sampling Location | Terminal 1 STP RO Outlet | Date - Receipt of Sample | 26/05/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 26/05/2022 |
| Order Reference | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |

| Sr. No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|------------|---|--------------------|-------------------------------|------|-----------------------------|
| Chem | ical Testing; Group: Pollution & | Environment | b. | | |
| 1. | pH | 7.58 | Not specified | 199 | IS 3025 (Part II):1983 |
| 2. | Total Suspended Solids | 10 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 2 | 30 | mg/L | IS 3075 (Pert 44): 993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 23° Ed., 5220-8, 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA, 23" Ed., 5520-B. 5-42 |

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TEST REPORT

| Report No. E/05/22/0346N | Report Date | 01/06/2022 |
|--|---|--|
| Chhatrapati Shivaji Maharaj Intern 1st Floor, Terminal 1B, Santacruz(| ational Airport, | 0 |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 1 STP RO Outlet | Date - Receipt of Sample | 26/05/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 26/05/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |
| | Mumbai International Airport L 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 Date - Completion of Analysis |

| No. | Parameter | Result | Limits as per MPCB Consent | Unit | Method |
|---------|---|----------------------|-------------------------------|---------------|--------------------------------|
| Chemic | al Testing; Group: Pollution 8 | k Environment | | | |
| 1. | Free Residual Chlorine (as Cl ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA, 23rd Ed., 4500-CI-6,4-72 |
| BLQ: Be | low Limit of Quantification, LOQ ample ID E/05/22/0346 bears tw | : Limit of Quantific | cation | :/05/22/0346N | |

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TEST REPORT

| Sample ID: E/05/22/0347 | Report Date | 01/06/2022 |
|--------------------------------------|---|---|
| Chhatrapati Shivaji Maharaj Intern | national Airport, | |
| Customer | Sample Description / Type | Untreated Sewage Effluent |
| Terminal 2 STP Inlet | Date - Receipt of Sample | 26/05/2022 |
| 2 L x 1 no. plastic/can | Date - Start of Analysis | 26/05/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |
| | Mumbai International Airport (Chhatrapati Shivaji Maharaj Internatist Floor, Terminal 18, Santacruzi Mumbai-400099, Maharashtra Customer Terminal 2 STP Inlet 2 L x 1 no. plastic.can W.O. No. 4600005756 dated | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 1st Floor, Terminal 18, Santacruz(E), Mumbai-400099, Maharashtra Customer Sample Description / Type Terminal 2 STP Inlet 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 | Unit | Method |
|------------|--|----------------|------|--|
| Chem | ical Testing; Group: Pollution & I | Environment | | |
| 1. | pH | 6.48 | | IS 3025 (Part II):IS83 |
| 2. | Total Suspended Solids | 138 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 631 | mg/L | IS 3025 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 1600 | mg/L | APMA 23" Ed. 5220-8. 5-88 |
| 5. | Oil & Grease | BLQ (LOQ:1) | mg/L | APHA. 23 rd Ed., 5520-B. 5-42 |
| 6. | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | mg/L | APHA, 23rd Ed., 4500-CI-6,4-72 |

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TEST REPORT

| Sample ID: E/05/22/0348 | Report Date | 01/06/2022 |
|--------------------------------------|---|--|
| Chhatrapati Shivaji Maharaj Interr | national Airport, | |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 2 STP RO Outlet | Date - Receipt of Sample | 26/05/2022 |
| 2 L x 1 no. plastic can | Date - Start of Analysis | 26/05/2022 |
| W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |
| | Mumbai International Airport I 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 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; Group: Pollution (| Environment | | | |
| 1. | рН | 6.88 | Not specified | (6) | IS 3025 (Part II):I983 |
| 2. | Total Suspended Solids | 10 | 50 | mg/L | IS 3025 (Part 17): 1984 |
| 3. | Biochemical Oxygen Demand (3 days, 27°C) | 2 | 30 | mg/L | IS 3075 (Part 44): 1993 |
| 4. | Chemical Oxygen Demand | 10 | 100 | mg/L | APHA, 23" Ed., 5220-8. 5-18 |
| 5. | Oil & Grease | BLQ (LOQ:1) | Not specified | mg/L | APHA 23" Ed. 5520-8, 5-42 |

Note: Sample ID E/05/22/0348 bears two Test Reports - E/05/22/0348 and E/05/22/0348N

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TEST REPORT

| Sample ID: E/05/22/0348 | Sample ID E/04/22/0348N | Report Date | 01/06/2022 |
|---------------------------------|--|-------------------------------|----------------------------|
| 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 | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 26/05/2022 |
| Sample Quantity/ Packing | 2 L x 1 no. plastic can | Date - Start of Analysis | 26/05/2022 |
| Order Reference: | W.O. No. 4600005756 dated 08.07.2021 | Date - Completion of Analysis | 31/05/2022 |
| 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; Group: Pollution & | Environment | | | |
| 1,2 | Free Residual Chlorine (as CL ₂) | BLQ (LOQ:0.05) | 1 | mg/L(ppm) | APHA, 23rd Ed., 4500-CI-6.4-72 |
| BLQ: E | Below Limit of Quantification, LOQ: Sample ID E/05/22/0348 bears two | Limit of Quantifica | ation | d E/0E/32/0249 | B.I. |

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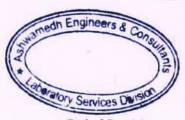
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TEST DEDORT

| | IESI KEPU | JKI | |
|---------------------------------|--|-------------------------------|----------------------------|
| Sample iD E/09/22/5120 | Report No. E/09/22/5120 | Report Date | 21/09/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. | ional Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 1 STP RO Outlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

| Sr. No. | Parameter | Result | Limit as Per MPCB Consent | Unit | Method |
|------------|---|---------------------|------------------------------|---------------------|--------------------------------------|
| Che | emical Testing; Group: P | ollution & Environn | nent | | |
| Phy | sical & Chemical Parame | eters | | | |
| 1. | pH | 7.4 | 5.5-9.0 | - | IS 3025 (Part II) I983 |
| 2. | Total Suspended Solids | 12 | 20 | mg/L | IS 3025 (Part I7) I984 |
| 3. | Biochemical Oxygen Demand (3 Days, 27°C) | 6 | 10 | mg/L | IS 3025 (Part 44) 1993 |
| 4. | Chemical Oxygen Demand | 20 | 50 | mg/L | APHA 23rd Ed. 5220- 8-18:2017 |
| 5. | Ammonical Nitrogen (as NH3-N) | BLQ (LOQ:0.1) | 5 | mg/L | APHA, 23rd Ed 4500-NH3 F, 4-119-2017 |
| Bio | logical Testing; Group: P | ollution & Environr | ment | | |
| Bac | teriological Parameters | | | | |
| 6. | Faecal Coliforms | 22 | Less than 100 | MPN Index /100ml | APHA. 23" Ed. 9221 E 9-77: 2017 |
| | : Below Limit of Quantificate: Sample ID E/09/22/5120 | | | and E/09/22/5 | 5120N |

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TEST REPORT

| Sample ID E/09/22/5120 | Report No. E/09/22/5120N | Report Date | 21/09/2022 |
|---------------------------------|---|-------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1 st Floor, Terminai 1B, Santacruz (E) Mumbai-400099, Maharashtra | | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 1 STP RO Outlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

| Sr. No. | Parameter | Result | Limit as Per MPCB Consent | Unit | Method |
|------------|---|------------------|------------------------------|--------------|---|
| Che | mical Testing; Group: Po | Ilution & Enviro | nment | | |
| 1:: | Total Nitrogen (as N) | 4.1 | 10 | mg/L | APHA 23rd Ed_4500 NH3,B & C, 4-114 4- 116:2017 |
| | : Below Limit of Quantificat e: Sample ID E/09/22/5120 | | | and F/09/22/ | |

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TEST REPORT

| Sample ID E/09/22/5121 | Report No. E/09/22/5121 | Report Date | 21/09/2022 |
|---------------------------------|---|----------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. | onal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

Consent Number & Date Format 1 0/CAC/UAN NO 0000111260/CR/2205000810 Date 13.05.2022

| Sr. No. | Parameter | Result | Unit | Method |
|------------|---|---------------|------------------|--|
| Che | mical Testing; Group: Pollution | & Environment | | |
| Phy: | sical & Chemical Parameters | | | |
| 1,- | рН | 6.95 | - | IS 3025 (Part II) I983 |
| 2. | Total Suspended Solids | 86 | mg/L | IS 3025 (Part 17) I984 |
| 3. | Biochemical Oxygen Demand (3 Days, 27°C) | 200 | mg/L | IS 3025 (Part 44) 1993 |
| 4. | Chemical Oxygen Demand | 600 | mg/L | APHA 23rd Ed., S220- 8.5-18:2017 |
| 5. | Ammonical Nitrogen (as NH3-N) | 23.5 | mg/L | APHA 23rd Ed 4500 NH3 B & C 4114 4-116:201 |
| Biol | ogical Testing; Group: Pollution | & Environment | | |
| Bact | teriological Parameters | | | |
| 6. | Faecal Coliforms | 170 | MPN Index /100ml | APHA 23" Ed., 9221-E, 9-77; 2017 |

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TEST REPORT

| Sample ID: E/09/22/5121 | Report No. E/09/22/5121N | Report Date | 21/09/2022 |
|---------------------------------|--|----------------------------------|------------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra | | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 2 STP Inlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|-----------------------------|-------------------|------|--------|
| Chemi | ical Testing; Group: Pollut | ion & Environment | | |
| | | | | |

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TEST REPORT

| | ILSI KLPU | IX I | |
|---------------------------------|---|----------------------------------|----------------------------|
| Sample ID E/09/22/5122 | Report No.: E/09/22/5122 | Report Date | 21/09/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1 st Floor, Terminal 18, Santacruz (E) Mumbai-400099, Maharashtra. | onal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

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

| | | Result | MPCB Consent | Unit | Method |
|-------|---|-------------------|---------------|---------------------|----------------------------------|
| Chen | mical Testing; Group: Pol | lution & Environ | ment | | * |
| Phys | sical & Chemical Paramet | ters | | | |
| 1. p | рН | 7.8 | 5.5-9.0 | | IS 3025 (Part II) 1983 |
| 2. T | Total Suspended Solids | 15 | 20 | mg/L | IS 3025 (Part 17) 1984 |
| | Biochemical Oxygen Demand (3 Days, 27°C) | 7 | 10 | mg/L | IS 3025 (Part 44) 1993 |
| 4 | Chemical Oxygen Demand | 20 | 50 | mg/L | APHA 23rd Ed. 5220- 8.5-18:2017 |
| | Ammonical Nitrogen (as NH3-N) | BLQ (LOQ:0.1) | 5 | mg/L | APHAZ3rd Ed 4500-NH3 F 4-119-201 |
| Biolo | gical Testing; Group: Po | llution & Environ | ment | | • |
| acte | eriological Parameters | | 4 | | |
| 6. F | Faecal Coliforms | 32 | Less than 100 | MPN Index /100ml | APHA 237 Ed 9221-E. 9-77: 2017 |

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



Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by



Note:

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

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

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







sales@ashwamedh.net +91-253-2392225

TEST REPORT

| Sample ID E/09/22/5122 | Report No E/09/22/5122N | Report Date | 21/09/2022 |
|---------------------------------|--|----------------------------------|----------------------------|
| Name and Address of Customer | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internat 1 st Floor, Terminai 1B, Santacruz (E) Mumbai-400099, Maharashtra. | ional Airport, | 5 |
| Sampling done by | Customer | Sample Description / Type | Treated Sewage Effluent |
| Sampling Location | Terminal 2 STP RO Outlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

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

| Sr. No. | Parameter | Result | Limit as Per MPCB Consent | Unit | Method |
|------------|--|--------|------------------------------|------|---|
| | Chemical Testing; Group: Pollution & Environment | | | | |
| 1. | Total Nitrogen (as N) | 3.84 | 10 | mg/L | APHA 23rd Ed. 4500-NH3.8 & C.4-H4.4- H6:2017 |

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Note:

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

2. This report is not to be reproduced except in full, without written approval of the laboratory, 3. In case sampling is not done by laboratory, the results apply to the sample as received.







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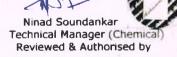
TEST REPORT

| | TEST REPO | 17.1 | |
|------------------------------|---|----------------------------------|------------------------------|
| Sample ID E/09/22/5119 | Report No. E/09/22/5119 | Report Date | 21/09/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shiyaji Maharaj Internatio 1st Floor, Terminai 1B, Santacruz (E) Mumbai-400099, Maharashtra. | inal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Örder Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|---|---------------|------------------|---|
| Che | mical Testing; Group: Pollution (| k Environment | | |
| Phy: | sical & Chemical Parameters | | | |
| 1. | рН | 6.82 | _ | IS 3025 (Part II) I983 |
| 2. | Total Suspended Solids | 99 | mg/L | IS 3025 (Part 17) 1984 |
| 3. | Biochemical Oxygen Demand (3 Days, 27°C) | 225 | mg/L | IS 3025 (Part 44) 1993 |
| 4. | Chemical Oxygen Demand | 620 | mg/L | APHA 23rd Ed. 5220- 8-18:2017 |
| 5. | Ammonical Nitrogen (as NH3-N) | 22.4 | mg/L | APHA 23rd Ed.4500 NH3.B & C. 4-84 4-85-2017 |
| Biol | ogical Testing; Group: Pollution | & Environment | | |
| Bac | teriological Parameters | | | |
| 6 | Faecal Coliforms | 170 | MPN Index /100ml | APHA 23" Ed 9221 E 9-77:2017 |

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





Note:

 1_{\circ} The result listed refers only to the tested sample(s) and applicable parameter(s).

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







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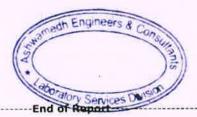
TEST REPORT

| | TEST KEPU | K I | |
|---------------------------------|--|----------------------------------|------------------------------|
| Sample (1) E/09/22/5119 | Report No. E/09/22/5119N | Report Date | 21/09/2022 |
| Name and Address of Customer | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internatio 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra | nal Airport, | |
| Sampling done by | Customer | Sample Description / Type | Untreated Sewage Effluent |
| Sampling Location | Terminal 1 STP Inlet | Date - Receipt of Sample | 17/09/2022 |
| Sample Quantity/Packing | 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| Order Reference | As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |

| Sr. No. | Parameter | Result | Unit | Method |
|------------|---------------------------|---------------------------|-------------------|--|
| Chemic | al Testing; Group: Pollut | ion & Environment | | |
| 1. To | tal Nitrogen (as N) | 32.2 | mg/L | APHA 23rd Ed, 4500 NH3.B & C, 4-114 4-116:2017 |
| | ample ID E/09/22/5119 bea | rs two Test Reports - E/0 | 9/22/5119 and E/0 | 9/22/5119N |

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





Note:

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

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

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





sales@ashwamedh.net +91-253-2392225

TEST REPORT

| | // L | 1 |
|--|---|--|
| Report No.: E/09/22/5120N | Report Date | 21/09/2022 |
| Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj Internati 1 st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. | onal Airport, | |
| Customer | Sample Description / Type | Treated Sewage Effluent |
| Terminal 1 STP RO Outlet | Date - Receipt of Sample | 17/09/2022 |
| 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Date - Start of Analysis | 17/09/2022 |
| As Per Mail Dated 14.07.2022 | Date - Completion of Analysis | 20/09/2022 |
| | Mumbai International Airport Ltd Chhatrapati Shivaji Maharaj Internati 1st Floor, Terminal 1B, Santacruz (E) Mumbai-400099, Maharashtra. Customer Terminal 1 STP RO Outlet 2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle | Mumbai International Airport Ltd. Chhatrapati Shivaji Maharaj International Airport, 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 250 ml x 1 no. sterile glass bottle Date - Completion of |

| Sr. No. | Parameter | Result | Limit as Per MPCB Consent | Unit | Method |
|------------|---|--|---|--------------|---|
| Che | mical Testing; Group: Po | llution & Enviro | nment | | |
| 1. | Total Nitrogen (as N) | 4.1 | 10 | mg/L | APHA,23rd Ed_4500 NH3,8 & C, 4-114 4- 116:2017 |
| BLQ | : Below Limit of Quantificat e: Sample ID E/09/22/5120 | ion, LOQ: Limit of bears two Test R | Quantification eports - E/09/22/5120 a | and E/09/22/ | 5120N |

Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by





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

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

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

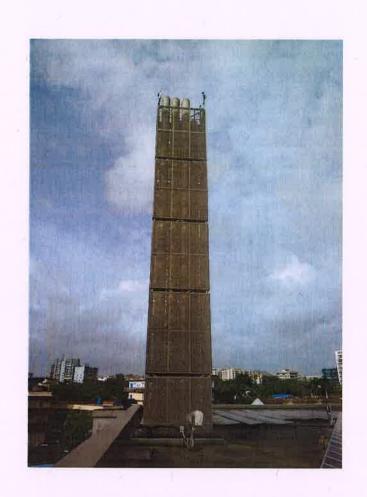


Annexure - 5 DG Enclosures and stack

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







Annexure - 6 Contingency plan for spills

Mumbai International Airport Ltd.

AIRSIDE OPERATIONS

AIRSIDE SAFETY

STANDARD OPERATING PROCEDURE

FUEL/ FLUID SPILLAGE

MIAL/AO-ASM/SOP/03/04

| Activity | Name | Signature Date |
|-----------------|---|-----------------|
| Prepared By: | Rajesh Jadhav DGM- Airside Safety | Ry un dans |
| | Vinayak Sohani Documentation Lead | Nadro |
| Recommended by: | Jayant Dasgupta AVP -Airside Management | J. Are |
| | Prasad Nair MR-IMS | All MILLON |
| Approved by | Prabhat Mahapatra EVP - Operations | Almahap 13/1/21 |

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

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

TABLE OF CONTENTS

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



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.





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

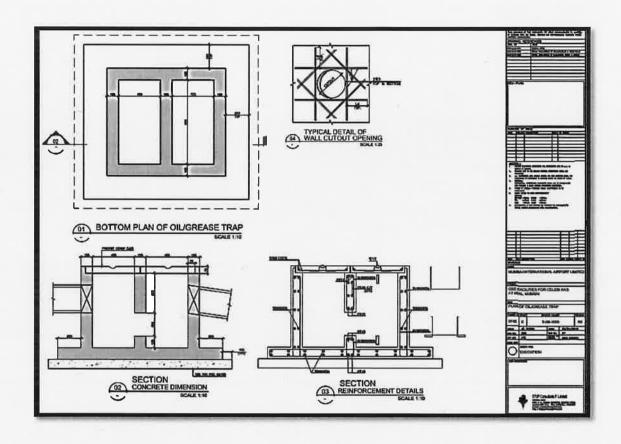
10.0 REVISION HISTORY

| 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 - 7 Oil Interceptors

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



Annexure - 8 Green Existing Building (GEB) Rating
Certificate by CII





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

Chairman, IGBC

Chair, IGBC Green EB O&M **Gurmit Singh Arora**

Metalray

Executive Director, CII-Godrej GBC K S Venkatagiri

Annexure - 9 Last EC Submission Letter

Jayesh Kumar Gehlot

From: Sent:

٦ö:

Subject:

Attachments:

Sunday, July 31, 2022 11:14 PM

Jayesh Kumar Gehlot

apccfcentral-ngp-mef@gov.in; eccompliance-mh@gov.in; 'ms@mpcb.gov.in'; SRO Mumbai 2; 'archituprit.cpcb@nic.in' Manoj Katar; Shalin Shah; Azharuddin Kazi

Half Yearly Environment Clearance Compliance report for CSMIA -reg

EC compliance status Airside FY 21-22_Apr_Sept.zip; EC compliance status Airside FY 21-22_Oct-Mar.zip

Dear Sir/Madam,

Please find enclosed herewith the compliance report of EC conditions for the period April to Sept and Oct to Mar of FY 21-22.

We are in process and will submit six-monthly compliance report through PARIVESH portal according to the notification issued on 14th June 22 by Ministry of Environment, Forest and Climate Change.

Thanking you.

Yours faithfully,

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

1st Floor, Terminal 1, Santacruz (E), Mumbai 400 099, India **Mumbai International Airport Limited**

Mobile: +91 9001894544, Ph.+22-668-50778

www.csmia.adaniairports.com



Ref: MIAL/ENV/22/11

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 Oct 21 to March 21.

As per the Ministry of Environment, Forest and Climate Change notification vide no. F. No. IA3-22/1/2022-IA-III [E- 172624] dated 14th June 2022 six-monthly compliance report will be submitted through dedicated module in PARIVESH from the next reporting cycle.

Thanking you.

Yours faithfully,

For Mumbai 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)

Annexure - 10 Environmental Statement (Form V) 2021-22



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT STATEMENT-0000049195

Submitted Date

29-09-2022

PART A

Company Information

Company Name

Mumbai International Airport Limited

Address

Chhatrapati Shivaji Maharaj International Airport (CSMIA),

Plot no

1st floor, Terminal - 1

Capital Investment (In

lakhs)

11132.62

Pincode

400099

Telephone Number

02266850778

Region SRO-Mumbai II

Last Environmental statement submitted online

yes

Consent Valid Upto

2024-05-31

Industry Category Primary (STC Code) & Secondary

(STC Code)

Application UAN number

0000046050

Taluka

Mumbai

Scale

Large

Person Name

Jayesh Kumar Gehlot

Fax Number

02266850778

Industry Category

Red

Consent Number

RED/L,S,I NO: Format 1,0/CAC/UAN

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

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

CONSENT-0000114666/CR-2202000364/ RED/L.S.I(R31)NO-FORMAT1.0/CAC/UAN NO-0000082458/CR-200700167

Establishment Year

2006

Village

Santacruz (East),

City

Mumbai

Designation

Head Environment & Sustainability,

jayeshkumar.gehlot@adani.com

Industry Type

R23 Airports and Commercial Air Strips

Consent Issue Date

2022-05-13

Date of last environment statement

submitted

Sep 29 2021 12:00:00:000AM

Product Information

Product Name

Consent Quantity

Actual Quantity

UOM

NA

0

0

Nos./Y

By-product Information

By Product Name

Consent Quantity

Actual Quantity

HOM

Part-B (Water & Raw Material Consumption)

| 1) Water Consumption in m3/day Water Consumption for Process | Consent Quantity in m3/day 0.00 | Actual Quantity in m3/day |
|--|---------------------------------|---------------------------|
| Cooling | 0.00 | 0.00 |
| Domestic | 7100.00 | 2513.70 |
| All others | 0.00 | 0.00 |
| Total | 7100.00 | 2513.70 |

2) Effluent Generation in CMD / MLD

ParticularsConsent QuantityActual QuantityUOMSewage generation at CSMIA66151255.0CMD

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

Name of Products (Production)During the Previous financial YearDuring the current Financial yearUOM Financial YearWater consumption per passenger0.0780.042

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

Name of Raw Materials

During the Previous

Financial Year

During the Current

Financial year

NIL 0 CMD

4) Fuel Consumption

Fuel NameConsent quantityActual QuantityUOMDiesel for DG set14760104.2

Part-C

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

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour | Percentage of variation from prescribed standards with reasons | | |
|-------------------|---|--|--|----------|--|
| | Quantity | Concentration | %variation | Standard | Reason |
| рН | 7.1 | 7.1 | 0 | 8 | Pollutant discharge within standard limit |
| Suspended Solids | 15.7 | 18.8 | 0 | 50 | Pollutant discharge within standard limit |
| BOD 3 days (27oC) | 7.7 | 11.2 | 0 | _30 | Pollutant discharge within standard limit |
| COD | 26.2 | 39.2 | 0 | 100 | Pollutant discharge within standard limit |

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/NM3) | Percentage of variation from prescribed standards with reasons | | |
|--------------------------------------|---|--|--|----------|---|
| | Quantity | Concentration | %variation | Standard | Reason |
| SO2 (Kg/day) | 0.4 | 0 | 0 | 295.2 | Pollutant discharge within standard limit |
| Total Particulate matter (mg/Nm3) | 0 | 17.6 | 0 | 150 | Pollutant discharge within standard limit |

Part-D

| HAZARDOUS WASTES | | | |
|--|---|--|--------|
| 1) From Process | | | |
| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | иом |
| 5.1 Used or spent oil | 0 | 11.760 | KL/A |
| 5.2 Wastes or residues containing oil | 2.42 | 0 | MT/A |
| 33.1 Empty barrels /containers /liners contaminated with hazardous | 3.41 | 48 | Nos./Y |

33.1 Empty barrels /containers /liners contaminated with hazardous 3.41 48 Nos./Y chemicals /wastes

44.84

82.402

MT/A

2) From Pollution Control Facilities

23.1 Wastes or residues (not made with vegetable or animal materials)

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | ИОМ |
|----------------------|--------------------------------------|-------------------------------------|------|
| 0 | 0 | 0 | MT/A |

Part-E

SOLID WASTES

| 1) From Process | | | |
|--------------------------|--------------------------------------|-------------------------------------|------|
| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
| Waste Plastics | 117 | 180 | MT/A |
| Waste Paper | 531 | 188 | MT/A |
| Waste glass bottles | 115 | 120 | MT/A |
| Waste Plastics bottles | 117 | 0 | MT/A |
| Waste wood | 113 | 150 | MT/A |
| Broken tins | 108 | 168 | MT/A |
| Other Misc. scrap | 114 | 147 | MT/A |
| Waste cotton | 88 | 106 | MT/A |
| Wet waste | 1840.7 | 1397 | MT/A |
| Organic / food waste | 207.3 | 517 | MT/A |
| | | | |

| 2) From Pollution Cont | rol Facilities |
|------------------------|----------------|
|------------------------|----------------|

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|--------------------------|--------------------------------------|-------------------------------------|------|
| STP sludge | 1.52 | 8.98 | MT/A |

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/NM3) | Percentage of variation from prescribed standards with reasons | | |
|--------------------------------------|---|--|--|----------|---|
| | Quantity | Concentration | %variation | Standard | Reason |
| SO2 (Kg/day) | 0.4 | 0 | 0 | 295.2 | Pollutant discharge within standard limit |
| Total Particulate matter (mg/Nm3) | 0 | 17.6 | 0 | 150 | Pollutant discharge within standard limit |
| Part-D | | | | | |

| HAZARDOUS WASTES 1) From Process Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | иом |
|--|---|--|--------------------|
| 5.1 Used or spent oil | 0 | 11.760 | KL/A |
| 5.2 Wastes or residues containing oil | 2.42 | 0 | MT/A |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 3.41 | 48 | Nos./Y |
| 23.1 Wastes or residues (not made with vegetable or animal materials) | 44.84 | 82.402 | MT/A |
| 2) From Pollution Control Facilities Hazardous Waste Type Total During Previous Financial year 0 0 | Total During Curre 0 | ent Financial year | UOM MT/A |

| SOLID WASTES 1) From Process | | | |
|---|--------------------------------------|-------------------------------------|------|
| Non Hazardous Waste Type Waste Plastics | Total During Previous Financial year | Total During Current Financial year | UOM |
| waste Plastics | 117 | 180 | MT/A |
| Waste Paper | 531 | 188 | MT/A |
| Waste glass bottles | 115 | 120 | MT/A |
| Waste Plastics bottles | 117 | 0 | MT/A |
| Waste wood | 113 | 150 | MT/A |
| Broken tins | 108 | 168 | MT/A |
| Other Misc. scrap | 114 | 147 | MT/A |
| Waste cotton | 88 | 106 | MT/A |
| Wet waste | 1840.7 | 1397 | MT/A |
| Organic / food waste | 207.3 | 517 | MT/A |

| 2) From Pollution Control Facilities | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------|
| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
| STP sludge | 1.52 | 8.98 | MT/A |

Part-G

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

| Description | Reduction in Water Consumption (M3/day) | Reduction in Fuel & Solvent Consumption (KL/day) | Reduction in Raw Material (Kg) | Reduction in Power Consumption (KWH) | Capital Investment(in Lacs) | Reduction in Maintenance(in Lacs) |
|---------------------------------------|--|---|---|---|-----------------------------------|---|
| Energy saving measures at CSMIA | 0 | 0 | 0 | 500000 | 140 | 0 |

Part-H

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

[A] Investment made during the period of Environmental

Statement

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

NIL NIL 0

[B] Investment Proposed for next Year

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

NA NA 0.0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

NIL

Name & Designation

Head Environment & Sustainability

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000049195

Submitted On:

29-09-2022