

Ref.: MIAL/ENV/16/37

Date: September 26, 2016

To,
The Regional Officer (SRO)
Maharashtra Pollution control Board,
Raikar chambers, "A wing", 216, 2nd Floor,
Deonar Gaon road, near Jain temple,
Govandi (E), Mumbai – 400 088.

Sub. : Environmental Statement for the Financial Year 2015-16

Ref: Consent to Operate no. BO/CAC-cell/EIC-MU-6761-15/CR/CAC-14016 dated: 03.11.2015 and Consent operate MLCP (building no. 5) No. BO/CAC-cell/EIC-MU-6613-15/CO(part)/CAC-12199 dated: 19.09.2015 and consent to operate for T1C hotel No. BO/CAC-cell/EIC-MU-6249-14/O(part)/CAC-690 dated: 21.01.2015

Dear Sir,

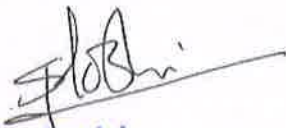
As per the above mentioned consents and Rule 14 of Environment (Protection) (Second Amendment) Rules, 1992, please find enclosed three copies of Annual Environmental Statement in Form V for the financial year 2015-16.

This is for your information and necessary records please.

Thanking you.

Yours faithfully,

For **Mumbai International Airport Pvt. Ltd.**



Shailendra Joshi
Deputy General Manager - Environment
Mumbai International Airport Pvt. Ltd.
Chhatrapati Shivaji International Pvt. Ltd.
1st Floor, Terminal 1B, Santacruz (E),
Mumbai-400 099, India.

Encl: As Above



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SRO
26/09/2016
REGIONAL OFFICE, MUMBAI
MAHARASHTRA POLLUTION CONTROL BOARD
RAIKAR CHAMBERS - A WING, 216, 2ND FLOOR
DEONAR GAON ROAD, NEAR JAIN MANDIR,
GOVANDI (E), MUMBAI - 400088

ENERGY
RESOURCES
AIRPORTS
TRANSPORTATION

ENVIRONMENT STATEMENT

for the year 2015-16

**M/s MUMBAI INTERNATIONAL
AIRPORT PVT. LTD**

CHHATRAPATI SHIVAJI
INTERNATIONAL AIRPORT

1st Floor, Terminal 1-B, Santacruz (E),

Mumbai - 400 099

Date: - 26th September 2016

FORM – V

(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING

31st MARCH 2016

PART – A

1.	Name and Address of the Owner/Occupier of the Industry Operation or Process	Mr. Rajiv Jain, CEO M/s Mumbai International Airport Pvt Ltd. Chhatrapati Shivaji International Airport 1 ST floor, Terminal 1-B, Santacruz (E), Mumbai - 400 099
2.	Industry Category Primary (STC code) Secondary (STC Code)	NA
3.	Production Capacity in Units	NA
4.	Year of Establishment	2 nd March 2006
5.	Date of the last Environmental Statement Report Submitted	29 th September 2015

PART – B

WATER & RAW MATERIAL CONSUMPTION

1. Water consumption in m3/day:

Water consumption for various purposes during the financial year 2015-16 at “Mumbai International Airport Pvt. Ltd.” is shown in following table.

Purposes	Consent Limit in M3/day	Actual average Consumption M3/day
Process	Nil	Nil
Cooling	Nil	Nil
Domestic	7442	3302.58
Total	7442	3302.58

Water consumption per unit of production/output during the Year 2015-16 as shown below:

Sr. No.	Name of Product	Water consumption in Liters per passenger	
		During the previous financial year 2014-15	During the current Financial year 2015-16
1	Water Consumption / passenger	48.89	28.9

2. Raw material consumption:

Sr. No.	Nam of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output	
			During the Financial year 2014-15	During the Financial year 2015-16
		NA		

PART –C

Pollution Discharged to Environment / unit of output

Sr. No.	Pollution	Quantity of pollutants discharged (Kg/Day) (Expect pH values)	Concentration of pollutants in discharges (mg/L)	Percentage of variation from prescribed standards with reasons
a)	Water:			
1	pH *	6.7	6.7	..
2	Suspended Solids	93.44	33.2	..
3	BOD	24.66	12.7	..
4	Residual Chlorine	0	0	..
5	Detergent	0	0	..
6	Floating Matter	0	0	..
7	Oil & Grease	0	0	..

Sr. No.	Pollution	Quantity of pollutants discharged (gm/Day)	Concentration of pollutants in discharges ($\mu\text{g}/\text{m}^3$)	Percentage of variation from prescribed standards with reasons
b)	Ambient Air:			
1	PM 2.5	..	39.77	All the parameter are within the limits prescribed in NAAQS, 2009
2	PM 10	..	64.38	
3	SO ₂	..	12.40	
4	NO _x	..	13.73	
5	CO	..	0.20	


Sr. No.	Pollution	Noise levels dB A (Leq)		Percentage of variation from prescribed standards with reasons
C) Noise				
		Min	Max	The values are within the limits given in the Consent & Noise Rules 2000
1	Day Time	44.5	74.6	
2	Night Time	43.9	69.7	

PART – D

Hazardous Wastes


As specified Under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008

Sr. No.	Hazardous Wastes	Total Quantity (MT)	
		During the previous financial year (2014-15)	During the current financial year (2015-16)
From Process			
1	Used oil	6.37	4.35
2	Oil contaminated filters (nos) and contaminated saw dust	2.54*	3.28*
3	Chemical tins/barrels nos	1.45	1.40
4	Cargo for disposal - Hazardous Cargo and date expired medicines (as per customs requirements)	3.1#	9.19
5	Biomedical Waste	0.11	0.13
6	Runway deposits of rubber & paint	95.08	45.61
7	Electronic Waste	1.15	0
*Contaminated saw dust disposal is included into this category for FY 2014-15 & 2015-16 # Waste perishable cargo is disposed under this category			

From Pollution Control Equipments	
	 NA

PART – E
Solid Wastes

Sr. No.	Type of Solid Waste	Total Quantity in MT	
		During the previous financial year 2014 – 15	During the current financial year 2015 – 16
From Process			
1	Waste Plastics	148.00	154.00
2	Waste Papers	812.00	868.00
3	Waste Glass bottles	57.00	70.00
4	Waste Plastic bottles	158.00	155.00
5	Waste wood	159.00	147.00
6	Damaged Tins / Cans	15.80	15.40
7	Other Misc. Scrap	173.00	155.00
8	Wet garbage	2839.00	2846.00

9	Waste cotton	----	135
From Pollution Control Facility			
1	STP Sludge (KG/Annum)	897.00	30914.00
Quantity Recycled or re-utilized within the unit			
 Not Applicable			
Quantity Sold			
1	Waste Plastics	148.00	154.00
2	Waste Papers	812.00	868.00
3	Waste Glass bottles	57.00	70.00
4	Waste Plastic bottles	158.00	155.00
5	Waste wood	159.00	147.00
6	Damaged Tins / Cans	15.80	15.40
7	Waste cotton	----	135
Quantity Disposed			
1	Other Scrap	173.00	155.00
2	Wet Garbage	2839.00	2846.00

PART-F

(Please specify the characterization in terms of composition and quantum of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of the waste)

Wastes are generated at the airport during operation and construction activities. The Waste management procedure is being followed to handle & dispose the wastes in environment friendly manner.

Disposal of Hazardous and Non Hazardous wastes are being done as per applicable legal requirements.

Sr. No.	Name of Waste	Quantity of Waste in (MT) FY 2015 -16	Disposal Practice
Solid Waste			
1.	Waste Plastics	154.00	The Non – Hazardous Waste is collected, segregated & disposed by M/s Sharda Enterprises. Segregation of the waste is being done at the contractors end after that the waste is disposed to MCGM disposal yard at Deonar.
2.	Waste Papers	868.00	
3.	Waste Glass bottles	70.00	
4.	Waste Plastic bottles	155.00	
5.	Waste wood	147.00	
6.	Damaged Tins / Cans	15.40	
7.	Waste cotton	135.00	
8.	Other Scrap	155.00	
9.	Wet garbage	2846.00	

Hazardous Waste			
1.	Used oil / Waste oil	4.35	MPCB authorized disposal agency M/s Meher Petrochem Pvt. Ltd. is appointed for disposal.
2.	Oil contaminated filters and contaminated saw dust (nos)	3.28*	Hazardous Waste is being disposed to M/s Mumbai Waste Management Limited (MWML). This is MPCB authorized disposal agency.
3.	Empty tins of paint, pesticides, chemicals etc.	1.403	
4.	Hazardous Cargo and date expired medicines	9.195	
5.	Biomedical Waste	0.131	
6.	Runway deposits of rubber & paint	45.61	This hazardous Waste is being disposed to M/s Trans Thane Creek Waste Management Association (TTCWMA). This is MPCB authorized disposal agency
7.	E-waste	0	MPCB authorized disposal agency - M/s Hi-Tech Recycling (India) Pvt Ltd is appointed for disposal

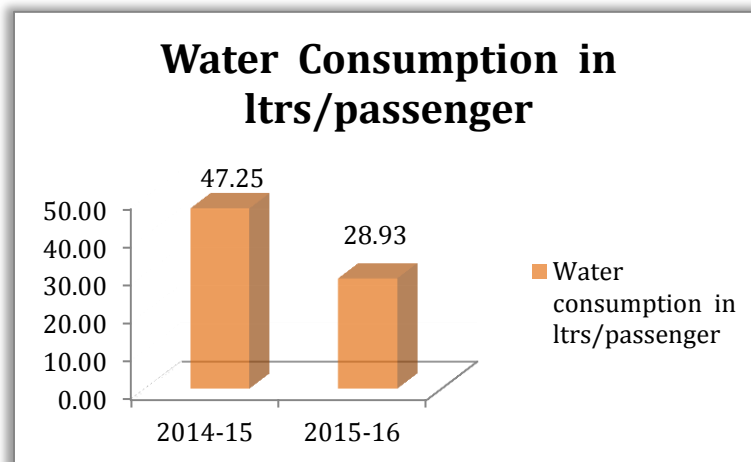
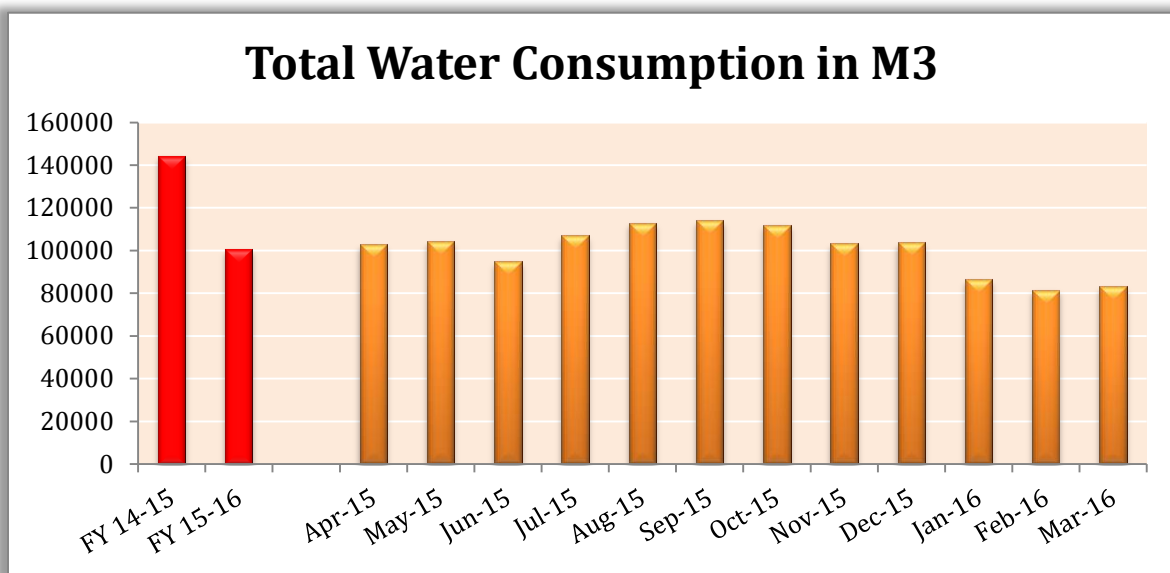
The Solid Wastes are being handled in totally hygienic conditions to avoid any Bird and Wildlife nuisance and intrusions, and by adhering to the Aerodrome operation Guidelines.

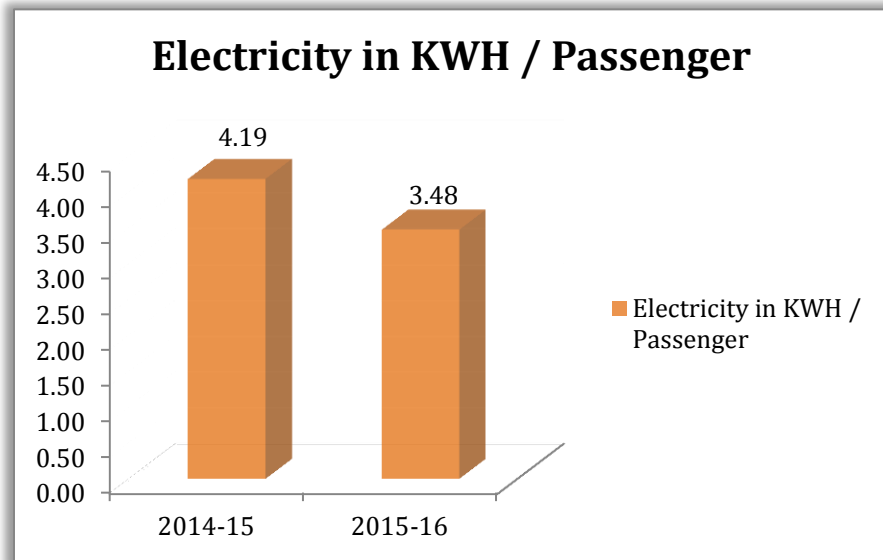
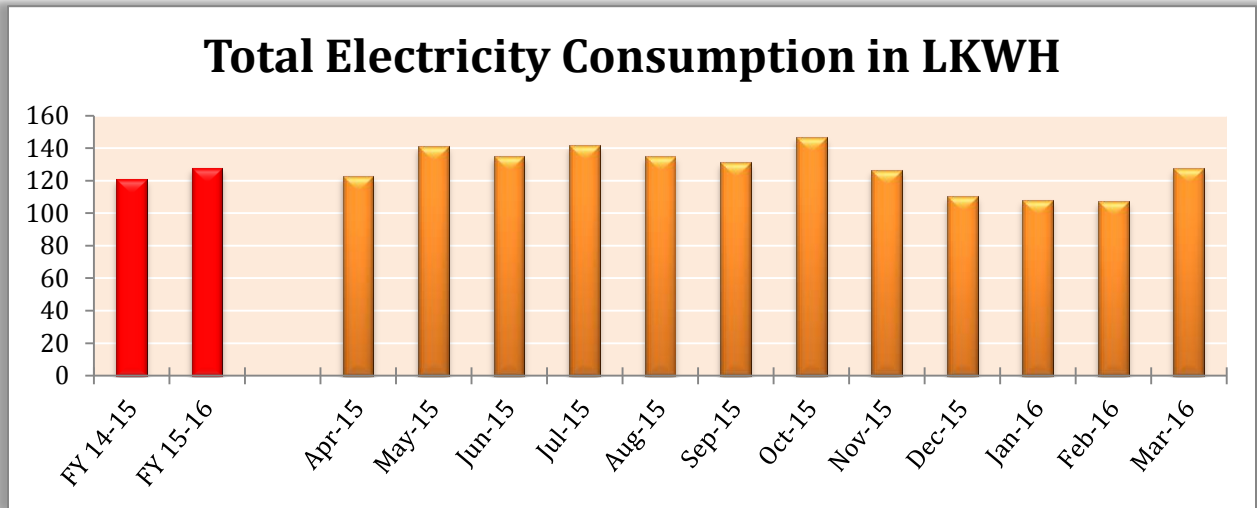
PART- G

(Impact of pollution Control Measures taken on conservation of Natural Resources and on the cost of production)

Resource optimization & conservation is always a first priority for MIAL at all stages of operation & maintenance. As a measure of conserving of Natural Resources, MIAL has undertaken several measures on optimizing the Water consumption, Electricity consumption, Fuel consumption at all possible areas. Various measures are being taken on continuous basis to ensure the process optimization and enhance the efficiency of resource conservation.

The detailed consumption pattern for electricity and water is given as below:-





PART – H

(Additional measures / investment proposal for Environmental Protection Including Abatement of Pollution, prevention of pollution)

As a responsible organization, MIAL is aware of environmental impacts of the operation and we strive to conduct our business in any way that minimizes any negative impact on the environment. We are committed to identifying and mitigating environmental impacts, with environmental responsibility integrated in our business planning, management systems & our daily operations. In FY 2016-17, MIAL further planning to enhance the pollution control system and introduce the systems with advanced technology in improving environmental performance of MIAL.

Continuous Ambient Air Quality monitoring station: - We have commissioned this system in March 2015. The system is operating very effectively and is maintained by annual O&M contract.

Noise Monitoring System: - Comprehensive Noise monitoring system is commissioned in March 2015 and since then it is working very efficiently. Further we are planning to improve the system and checking the feasibility for noise contouring of the airport on regular basis. The investment proposed for this new proposed project will be approx. 45.0 lacs apart from regular O&M of the system which is 18 lacs / annum.

Organic Waste Converter (OWC): To address the issue of non-hazardous organic waste, MIAL has taken up the project of Organic waste converter. This is bio-mechanical composting system which consists of OWC machine, shredder & fogging system. The food waste generated from terminal buildings, concessioners & flight kitchens are collected treated and system convert the same into compost.. MIAL has spent Rs. 38 lacs for installation & operation of this facility. The cost incurred for operation & treatment is this facility is approx. 24 lacs per annum. The organic manure generated from this facility is being used for the horticulture purposes at CSIA.

Vasundhara Puraskar 2015- MIAL has been awarded with the coveted 'Vasundhara Award 2015' from Govt of Maharashtra under the Large Scale Industries category. The Vasundhara award is conceptualized by the Maharashtra Pollution Control Board (MPCB) and Environment Department, Govt of Maharashtra with an aim to recognize the efforts of industries and urban local bodies who have made significant contributions to sustainable development and made measurable improvements to their environmental and social performance.

CII – Green Co certification:

The GVK Chhatrapati Shivaji International Airport (CSIA) Mumbai has become the first brown field airport to receive the 'GreenCo Gold Rating' by CII–Sohrabji Godrej Green Business Centre based on a robust assessment carried out by a team of GBC.

GreenCo Rating system is a first of its kind framework evolved by CII to assess and analyse the environmental performance of a company's activities and operations so as to achieve ecologically sustainable business growth. It is an industry benchmark for exemplary work in the areas of Environmental Management (water conservation, waste management, greenhouse (gases emission), Energy Management (efficiency and renewable energy), Green Supply Chain, Material Conservation, Recycling, and others

PART - I

(Any other Particulars for improving the quality of the environment.)

MIAL is taking continuous steps in preserving & improving the quality of surrounding environment. Some of the initiatives are given as below:

Airport Carbon Accreditation: - Mumbai International Airport Pvt Ltd is certified for ISO 14001:2004 (Environmental Management System) and 1st airport in India to be ISO 14064-1:2006 certified (Quantification & Reporting of GHG emissions). MIAL has participated in the program of Airport Carbon Accreditation by Airport Council International and reached up to level -3 Optimization in year 2015. The same level is also maintained in year 2016.

MIAL has received various certifications and accreditations such as

- ISO 14001:2015 – Environmental Management System
- ISO 50001:2011 – Energy Management System
- ISO 14064:2006 – GHG accounting
- OHSAS 18001:2007 – Occupational health & safety management system
- 5 star rating & Sward of Honor by British Safety Council