adani

Ref No. LIAL/CAO/ES/22-23/1030 **Date:29.09.2022**

To,

Member Secretary,
Uttar Pollution Control Board
Building.No. TC-12V Vibhuti Khand,
Gomti Nagar Lucknow-226 010

Sub: Environmental Statement for the financial year ending 31st March 2022 for "Chaudhary Charan Singh International Airport" Lucknow, **by M/s Lucknow International Airport Limited (LIAL)**

Ref:

i. **Consolidated Consent to Operate and Authorization (CCA) vide letter no. 155571/ UPPCB/ Lucknow (UPPCBRO)/ CTO/both/ LUCKNOW/ 2022 Dated 01/07/2022.**

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for Chaudhary Charan Singh International (CCSI) Airport, Lucknow for the financial year ending 31st March 2022 for the period of April 2021-March 2022.

Kindly consider above submission and acknowledge.

Thank you,
Yours Sincerely,
For, M/s Lucknow International Airport Limited

Balvir Singh Bhatia
Chief Airport Officer
CCS International Airport

डाक प्राप्ति रसीद
प्राप्ति दिनांक 30.9.22
प्राप्तकर्ता के हस्ता.
उ0प्र0 प्रदूषण नियं. बोर्ड, लखनऊ

Encl: As above.

Copy to: Regional Officer, Regional Office Lucknow - Picup Bhawan B-Block, 4th Floor, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Lucknow International Airport Limited
First Floor Terminal-1,
CCS International Airport Lucknow,
Lucknow-226009
Uttar Pradesh
CIN: U63030GJ2019PLC109814

Tel +91 79 2656 5555
Fax +91 79 2555 5500
Email: info@adani.com
Website: www.adani.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382 421

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

FORM V
(See Rule 14)

Environmental Statement for the period from 1st April 2021 to 31st March 2022

PART – A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	Mr. Balvir Singh Bhatia Chief Airport Officer Lucknow International Airport Ltd. (LIAL) First Floor Terminal 1, CCS International Airport Lucknow, Lucknow-226009, Uttar Pradesh, India
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red-Large NA NA
(iii)	Production Capacity		No production as Airport is Service Industry
(iv)	Year of Establishment	:	Commercial Date of Operation (COD): 2nd Nov 2020
(v)	Date of last Environment Statement submitted	:	23rd September 2021

PART – B

Water and Raw Material Consumption

(i) Water Consumption (in m3/day)

Water Consumption	604
Process	Nil
Domestic & cooling	604

	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(b) Air	Particulate Matter (PM)	--	Particulate Matter (mg/Nm3)	--	As a part of Environment Monitoring programme, DG set flue gas monitoring is being carried out quarterly. The Analysis of the D.G Set Stack Monitoring report attached as **Annexure-6**.
	Sulphur Dioxide (SO_2)	--	Sulphur Dioxide (PPM)	--	
	Nitrogen Oxide (NO_x)	--	Nitrogen Oxide (NO_x) (PPM)	--	

PART – D

Hazardous Wastes
(As specified under Hazardous & Other waste Wastes Management 2016)

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2020-21)	During the current financial year (2021-22)
(a) From Process	NA	**NA***
(b) From Pollution Control facilities	Not applicable	Not applicable

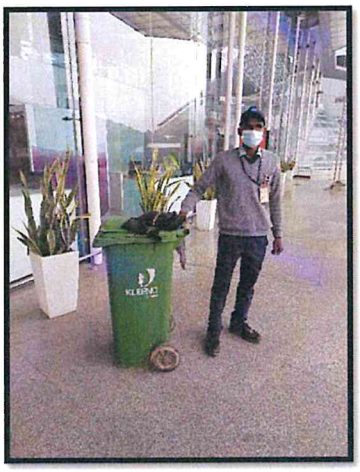
*Chaudhary Charan Singh International Airport is a service industry does not undergo any manufacturing or production. There is no process hazardous waste generation & disposal.
However, hazardous waste generated through D.G. Set and equipment maintenance as provided in **Annexure-3.**

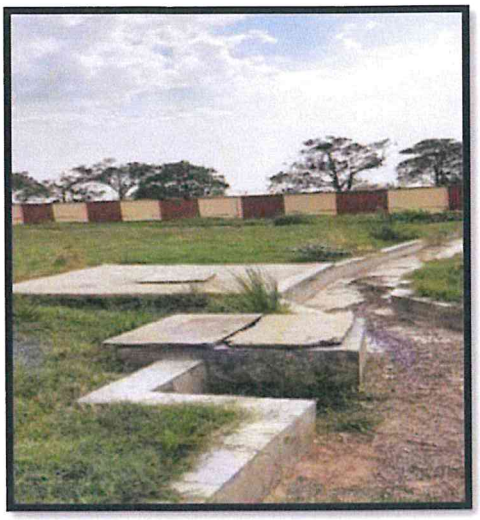
Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

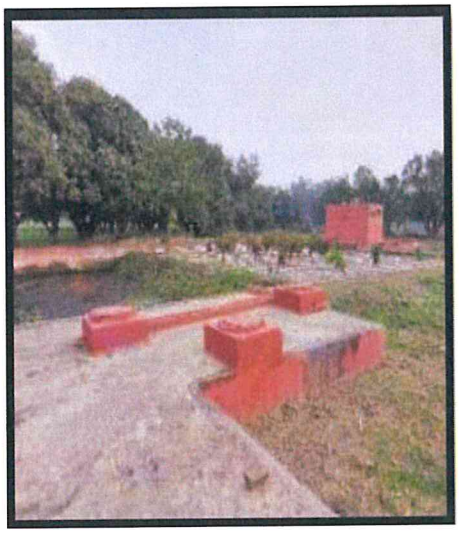
PART - F

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 wastes:

- As a part of LIAL operation, an effective Solid Waste Management plan has been implemented at site, which includes:
  - ✓ Collection & Segregation of waste from the source,
  - ✓ Providing separate waste bins (for dry & wet waste) at all the locations including Airside , Landside & within the Terminals
  - ✓ The segregated waste are collected and from there, shifted to Waste yard situated at backend of the Airport.
  - ✓ COVID-waste is being proper managed inline to the regulatory requirements.
  - ✓ All the waste after proper segregation is being sent to the recognized agency M/s Sharda Enterprises for further handling.
  - ✓ Hazardous Waste, generated at LIAL are being managed inline to the Hazardous Waste Management Rules 2016, amended till date.
  - ✓ Battery Waste, generated at LIAL are managed inline to the Battery Waste Management Rules 2010, amended till date
  - ✓ E-Waste, generated at LIAL are being managed inline to the E-Waste Management Rules 2016, amended till date
- As part of way forward Adani Lucknow International Airport Ltd has their future plans for managing it's wastes under 5 R principal and step ahead with a vision of Zero Waste to Landfill.







Air Management:

- Ambient Air Quality Monitoring is being carried out by MoEF&CC & NABL accredited laboratory and all the results are observed to be within Stipulated Standards
- Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.
- Green cover of ~6.37 Ha has been developed

Soil Management

- Environment Monitoring for Soil Analysis is being carried out by MoEF&CC and NABL accredited laboratory and all the results are under the norms inline to stipulated standards.

PART – H

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

- LIAL has developed an adequate Green Belt Area and is properly maintained by the Horticulture Team at the Airport.

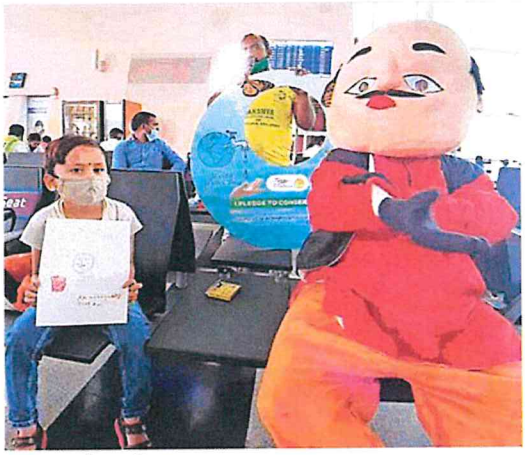
Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

World Water Day:

JAGRAN Epaper

March 23, 2022

National Delhi UP Haryana Uttarakhand



जल ही जीवन...

विश्व जल दिवस के अवसर पर मंगलवार को चौधरी चरण सिंह अंतरराष्ट्रीय एयरपोर्ट पर कई जागरूकता कार्यक्रम आयोजित किये गए। कार्टून चरित्र मोटू ने यात्रियों को जल संरक्षण का संदेश दिया। लखनऊ इंटरनेशनल एयरपोर्ट लि. की ओर से 25 मार्च तक कई आयोजन होंगे • सौजन्य : एयरपोर्ट लिमिटेड

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

Recycle plastic: Doraemon message to kids at airport

TIMES NEWS NETWORK

Lucknow: The Chaudhary Charan Singh International (CCSI) Airport at Lucknow is conducting a campaign with the help of cartoon character Doraemon wherein volunteers visited adjoining areas and shared the impact of single-use plastic and its recycling with children and adults on Wednesday.

At the airport, products made from recycled plastic were displayed and kids were educated about the benefits of recycling plastic.

CCSI Airport spokesperson said that as part of the plastic-free airport, an awareness campaign has been initiated from March 23-25 in which employees and staff working at the airport will actively participate. Officials said that the campaign was in line with Prime Minister Narendra Modi's call to phase out single-use plastic by 2022 and the Plastic Waste Management Amendment Rules, 2021..

TELLING IT THE TOON WAY

प्लास्टिक का उपयोग कम करने के लिए किया जागरूक

जासं, लखनऊ : सब्जी और किराना का सामान खरीदने सहित कई कामों में इस्तेमाल होने वाली पालीथिन से पर्यावरण को होने वाले नुकसान के बारे में बुधवार को लखनऊ एयरपोर्ट के आसपास के लोगों को जागरूक किया गया। लखनऊ इंटरनेशनल एयरपोर्ट लिमिटेड की ओर से आसपास के क्षेत्रों में कार्टून चरित्र डोरिमोन के जरिये लोगों को प्लास्टिक के कचरे से होने वाली हानियों की जानकारी दी गई। चौधरी चरण सिंह अंतरराष्ट्रीय एयरपोर्ट के प्रवक्ता ने कहा कि प्लास्टिक मुक्त हवाई अड्डे के तहत 25 मार्च तक लगातार जागरूकता अभियान चलाया जाएगा।

प्लास्टिक के इस्तेमाल पर अंकुश लगाने के लिए एयरपोर्ट पर चला जागरूकता अभियान • सौ. : एयरपोर्ट प्रबंधन

29/9/2022

Date : 29.09.2022

(Signature of a person carrying out an industry, operation or process)

Balvir Singh Bhatia

Designation : **Chief Airport Officer**

Address: **Lucknow International Airport Ltd.**
First Floor Terminal 1,CCS International Airport
Lucknow Lucknow-226009 Uttar Pradesh, India

Annexure-3

Hazardous Waste Details

Hazardous Waste	Unit	Quantity
5.1 Used of Spent oil	Liters	1020
3.3 Sludge and filters contaminated with oil	Kg	104
33.2 Contaminated cotton rage or other cleaning material	kg	11
33.1 Empty Barrels/ containers/ liners contaminated with hazardous chemicals/ waste	Nos	9

ANNEXURE – 4

Cost of Environmental Protection Measures of LIAL, Lucknow

April 2021 – March 2022

Sr. No.	Activity	Cost incurred (INR in Lacs)
1.	Legal & Statutory Expenses	8.3
2.	Environmental Monitoring Services	10.78
3.	Hazardous / Non Hazardous Waste Management & Disposal	0.22
4.	Others- Flowmeter, Piezometer and display board	12.24
5.	Other Horticulture Expenses	103.5
6.	O&M of Sewage Treatment Plant)	12.9
Total		**147.94**

ANNEXURE – 5

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
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ISSUED TO:
M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/01164/006
Issued Date : 2021.05.04
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS	:	**STP OUTLET WASTEWATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**APRIL 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	16.04.2021
Analysis Start Date	:	19.04.2021
Analysis Completion Date	:	26.04.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard
1	pH	IS:3025 P-11	--	7.3	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	53	100
3	Total Dissolved Solids	IS:3025 P-16	mg/L	452	2100
4	Total Nitrogen	APHA 4500-B	mg/L	3.4	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	108	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	19	30
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/02413/008
Issued Date : 2021.07.05
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS	:	**STP OUTLET WASTEWATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**JUNE 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	02.06.2021
Analysis Start Date	:	04.06.2021
Analysis Completion Date	:	11.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard
1	pH	IS:3025 P-11	--	7.3	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	50	100
3	Total Dissolved Solids	IS:3025 P-16	mg/L	452	2100
4	Total Nitrogen	APHA 4500-B	mg/L	3.2	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	56	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	13	30
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
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UTTARPRADESH-226009

Report Number : VLL/VLS/21/06576/006
Issued Date : 2021.09.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**AUGUST 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	16.08.2021
Analysis Start Date	:	18.08.2021
Analysis Completion Date	:	24.08.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.2	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	43	< 100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	473	< 2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.7	< 10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	35	< 250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	10	< 30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	< 10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	< 5	--

Dr. SubbaReddy Mallampati
Group Leader-Environment

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M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
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Report Number	:	VLL/VLS/21/09591/006
Issued Date	:	2021.11.05
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS	:	**STP OUTLET WASTEWATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**OCTOBER 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	11.10.2021
Analysis Start Date	:	13.10.2021
Analysis Completion Date	:	22.10.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.45	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	42	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	482	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.1	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	33	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	10	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5	--

Dr. SubbaReddyMallampati
Group Leader-Environment

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M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED., (CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW, UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/12779/008
Issued Date	:	2022.01.08
P. Order Ref	:	5700301505
P.O. Date	:	20.10.2021

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**DECEMBER 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; andAmmonical Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On	:	08.12.2021
Analysis Start Date	:	10.12.2021
Analysis Completion Date	:	22.12.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	8.2	7.94	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	116	43	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	915	640	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	16.2	4.8	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	280	58	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	71	15	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	5.9	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.4	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	280	<1.8	<100	<1000

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
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M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED., (CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW, UTTARPRADESH-226009

Report Number : VLL/VLS/21/15589/001
Issued Date : 2022.03.05
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**February 2022**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; andAmmonical Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On	:	08.02.2022
Analysis Start Date	:	10.02.2022
Analysis Completion Date	:	18.02.2022
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.16	7.46	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	290	46	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	422	324	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	14.7	3.3	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	480	70	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	95	14	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	4.4	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.5	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	225	<1.8	<100	<1000

Dr. SubbaReddyMallampati
Group Leader-Environment

ANNEXURE – 6

Vimta Labs Limited
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M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/02413/001
Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS : **DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED : **SCADA Building**

Sampling Date	:	2021.06.07
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	JUNE 2021
Sample Registration Date	:	2021.06.09

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	**750**	**750**	**750**	**750**	**750**	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m^2	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	^0C	USEPA M-2	312	308	311	269	294	--
5	Velocity of the Flue gas	m/Sec		14.2	13.3	13.34	12.55	13.5	--
6	Volumetric Flow rate	Nm^3/hr		11660	11014	10990	10935	11270	--
Chemical Parameters									
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM 30&34	59	64	75	87	68	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		151.10	92.19	172.08	144.07	89.55	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**2.349**	**1.348**	**2.542**	**2.101**	**1.346**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		236.41	165.43	187.25	177.51	140.63	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**3.675**	**2.419**	**2.766**	**2.588**	**2.113**	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		20.61	21.27	46.93	37.73	21.07	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.320**	**0.311**	**0.693**	**0.550**	**0.317**	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	7.20	6.81	12.52	10.98	8.43	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.112**	**0.100**	**0.185**	**0.160**	**0.127**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

Dr. SubbaReddy Mallampati
Group Leader-Environment

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ISSUED TO:
M/S. ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/02413/003
Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**ATC Technical Block**
Sampling Date	:	2021.06.08
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	JUNE 2021
Sample Registration Date	:	2021.06.09
Sample Collected by Vimta Labs Ltd.		

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m^2	-	0.1453	0.1453	--
4	Flue gas Temperature	^0C	USEPA M-2	169	201	--
5	Velocity of the Flue gas	m/Sec		9.08	9.1	--
6	Volumetric Flow rate	Nm^3/hr		3110	2911	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	53	57	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		158.67	94.33	≤3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**2.467**	**1.373**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3	USEPA CTM30&34	201.93	191.60	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**3.140**	**2.789**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3	USEPA CTM30&34	40.23	36.02	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.626**	**0.524**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	12.52	10.98	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.195**	**0.160**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/02413/005
Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**MSSR Building**
Sampling Date	:	2021.06.09
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	JUNE 2021
Sample Registration Date	:	2021.06.09

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m^2	-	0.24	--
4	Flue gas Temperature	^0C	USEPA M-2	241	--
5	Velocity of the Flue gas	m/Sec		9.2	--
6	Volumetric Flow rate	Nm^3/hr		4437	--
Chemical Parameters					
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	57	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		72.46	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.607	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		80.77	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**1.792**	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		18.11	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.402**	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	8.28	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.184**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/07984/019
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED	:	DGCA Building
Sampling Date	:	2021.09.23
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	SEPTEMBER 2021
Sample Registration Date	:	2021.09.25

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m^2	-	0.159	0.159	--
4	Flue gas Temperature	^0C	USEPA M-2	211	198	--
5	Velocity of the Flue gas	m/Sec		9.77	9.85	--
6	Volumetric Flow rate	Nm^3/hr		3324	3448	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	58	51	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		158.67	109.77	≤3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.602**	**1.215**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		249.66	163.43	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.521**	**1.809**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		49.17	29.16	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.496**	**0.323**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	13.41	12.06	≤0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.135**	**0.134**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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Report Number : VLL/VLS/21/07984/019
Issued Date : 2021.10.06
P. Order Ref : 5700291869
P. Order Date : 13.10.2020

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : CCR office

Sampling Date	:	2021.09.24
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	SEPTEMBER 2021
Sample Registration Date	:	2021.09.27

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m^2	-	0.16	0.16	--
4	Flue gas Temperature	^0C	USEPA M-2	238	251	--
5	Velocity of the Flue gas	m/Sec		10.99	11.80	--
6	Volumetric Flow rate	Nm^3/hr		3564	3755	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	55	52	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		104.59	92.75	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.260**	**1.140**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		136.58	104.64	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**1.645**	**1.286**	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		26.82	20.11	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.323**	**0.247**	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	13.24	15.01	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.160**	**0.184**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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ISSUED TO:
M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED., (CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT), AMAUSI, LUCKNOW, UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/12779/014
Issued Date	:	2022.01.08
P. Order Ref	:	5700301505
P. Order Date	:	20.10.2021

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**SCADA Building**
Sampling Date	:	2021.12.16
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	DECEMBER 2021
Sample Registration Date	:	2021.12.18
Sample Collected by Vimta Labs Ltd		

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	750	750	750	750	750	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m^2	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	^0C	USEPA M-2	253	297	300	274	286	--
5	Velocity of the Flue gas	m/Sec		14.33	14.9	14.38	13.84	13.99	--
6	Volumetric Flow rate	Nm^3/hr		12626	12425	11911	12013	11884	--
Chemical Parameters									
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM 30&34	80	75	86	81	91	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		104.27	130.94	109.90	124.92	135.77	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.753**	**2.169**	**1.745**	**2.001**	**2.151**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		135.78	178.03	137.79	173.09	184.49	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.282**	**2.949**	**2.188**	**2.772**	**2.923**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		10.93	37.63	20.25	28.60	38.55	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.184**	**0.623**	**0.322**	**0.458**	**0.611**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	10.33	9.13	8.45	7.93	9.10	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.174**	**0.151**	**0.134**	**0.127**	**0.144**	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/12779/016
Issued Date	:	2022.01.08
P. Order Ref	:	5700301505
P. Order Date	:	20.10.2021

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**ATC Technical Block**
Sampling Date	:	2021.12.14
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	DECEMBER 2021
Sample Registration Date	:	2021.12.16

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m^2	-	0.1453	0.1453	--
4	Flue gas Temperature	^0C	USEPA M-2	201	192	--
5	Velocity of the Flue gas	m/Sec		9.10	9.8	--
6	Volumetric Flow rate	Nm^3/hr		2905	3196	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	72	67	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		130.74	141.83	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.899**	**2.266**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3	USEPA CTM30&34	162.47	173.97	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.360**	**2.780**	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3	USEPA CTM30&34	28.49	41.60	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.414**	**0.665**	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	11.40	10.78	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.166**	**0.172**	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/12779/018
Issued Date	:	2022.01.08
P. Order Ref	:	5700301505
P. Order Date	:	20.10.2021

SAMPLE PARTICULARS	:	DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED	:	MSSR Building
Sampling Date	:	2021.12.18
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	DECEMBER 2021
Sample Registration Date	:	2021.12.20

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m^2	-	0.24	--
4	Flue gas Temperature	^0C	USEPA M-2	221	--
5	Velocity of the Flue gas	m/Sec		8.46	--
6	Volumetric Flow rate	Nm^3/hr		4236	--
Chemical Parameters					
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	58	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		79.77	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.690	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		111.27	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.357	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		28.60	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.606	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	6.77	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.143	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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Report Number	:	VLL/VLS/21/17079/019
Issued Date	:	2022.04.06
P. Order Ref	:	5700301505
P. Order Date	:	20.10.2021

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**DGCA Building**
Sampling Date	:	2022.03.17
Frequency of Monitoring	:	Quarterly
Monitoring Month	:	MARCH 2022
Sample Registration Date	:	2022.03.19
Sample Collected by Vimta Labs Ltd.		

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m^2	-	0.159	0.159	--
4	Flue gas Temperature	^0C	USEPA M-2	218	197	--
5	Velocity of the Flue gas	m/Sec		11.92	11.65	--
6	Volumetric Flow rate	Nm^3/hr		8995	4086	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	78	67	-- .
8	Carbon Monoxide @ 15% O2	mg/Nm^3		**112.93**	**77.58**	**≤ 3.5**
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.410	0.991	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		**141.99**	**122.73**	**NOx + HC ≤ 4.0**
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.773	1.567	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		**26.50**	**23.94**	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.331	0.306	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	**11.06**	**9.96**	**≤ 0.2**
	Particulate Matter @ 15% O2	gr/kw-hr		0.138	0.127	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/17079/021
Issued Date	:	2022.04.06
P. Order Ref	:	5700301505
P. Order Date	:	20.10.2021

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**CCR office**
Sampling Date	:	2022.03.18
Frequency of Monitoring	:	Quarterly
Monitoring Month	:	MARCH 2022
Sample Registration Date	:	2022.03.20

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m^2	-	0.16	0.16	--
4	Flue gas Temperature	^0C	USEPA M-2	212	204	--
5	Velocity of the Flue gas	m/Sec		10.97	11.1	--
6	Volumetric Flow rate	Nm^3/hr		3754	3853	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	75	67	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		**132.75**	**130.24**	**≤ 3.5**
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.391	1.568	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		**193.86**	**188.19**	**NOx + HC ≤ 4.0**
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.032	2.266	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		**26.55**	**29.81**	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.278	0.359	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	**15.34**	**15.06**	**≤ 0.2**
	Particulate Matter @ 15% O2	gr/kw-hr		0.161	0.181	

***Limits as CPCB DG Emission Guidelines as Per GSR 771(E)**

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