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 ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

ENalyze*

Ambient Air Quality Monitoring Report Report No. AB/HCPL/06/2019-20/507


Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/507
	Sample Location	Near Main Gate
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	22/06/2019
	Time of Sampling	11:20 am.
	Sampling Duration	08 Hrs.
	Ambient Temp.	31.6°C
	Dry Bulb / Wet Bulb Temp.	30.0°C/25.0°C
	Relative Humidity(RH)	53 %
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/120
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	


TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	52.62	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	20.44	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO ₂)	19.1	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.7	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	21.2	µg/m ³	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.04	µg/m ³	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.90	mg/m ³	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH ₃)	18.1	µg/m ³	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C ₆ H ₆)	0.04	µg/m ³	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.04	ng/m ³	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.08	ng/m ³	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09
13	Bromine (Br)	BDL	mg/m ³	≤ 0.7 (8 hrs.) As per NIOSH	NIOSH Manual

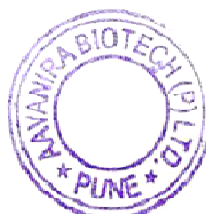
REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By - 
 Technical Manager


 Govt. Analyst
 Dr. Bikash Aich
 Managing Director
 -----End of Report-----


 Authorized By - Sarita Upadhye
 Technical Manager



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Ambient Air Quality Monitoring Report Report No. AB/HCPL/06/2019-20/508


Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/508
	Sample Location	Near Production Area
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	22/06/2019
	Time of Sampling	11:50 am.
	Sampling Duration	08 Hrs.
	Ambient Temp.	31.7°C
	Dry Bulb / Wet Bulb Temp.	30.5°C/25.2°C
	Relative Humidity(RH)	55 %
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/133
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

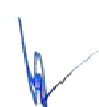
TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	59.47	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	25.10	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO ₂)	19.3	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	21.7	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	25.0	µg/m ³	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.05	µg/m ³	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.18	mg/m ³	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH ₃)	15.2	µg/m ³	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C ₆ H ₆)	0.03	µg/m ³	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.05	ng/m ³	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.11	ng/m ³	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09
13	Bromine (Br)	BDL	mg/m ³	≤ 0.7 (8 hrs.) As per NIOSH	NIOSH Manual

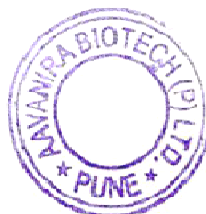
REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By - 
Dr. Neeta Zatakia
Technical Manager


Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----


Authorized By - Sarita Upadhye
Technical Manager



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Workzone Air Quality Monitoring Report Report No. AB/HCPL/06/2019-20/509

Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/509
	Sample Location	Production Area
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Workzone Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	22/06/2019
	Time of Sampling	12:35 pm.
	Sampling Duration	15 Min.
	Ambient Temp.	31.5°C
	Dry Bulb / Wet Bulb Temp.	31.0°C/23.5°C
	Relative Humidity(RH)	36 %
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Portable Gas Sampler, AB/Tech/Instr/94
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	


TEST PARAMETERS

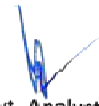
Sr. No.	Parameter	Result	Unit	The Factories Act 1948, standards	Standard Method
1	Suspended Particulate Matter (SPM)	8.21	mg/m ³	N.S.	IS : 5182 (Part 23)-2006
2	Sulphur Dioxide (SO ₂)	1.15	mg/m ³	≤ 10	IS : 5182 (Part 2)-2001
3	Oxides of Nitrogen (NO _x)	0.94	mg/m ³	≤ 10	IS : 5182 (Part 6)-2006
4	Bromine (Br)	0.06	mg/m ³	≤ 0.7	NIOSH Manual


N.S. = Not Specified

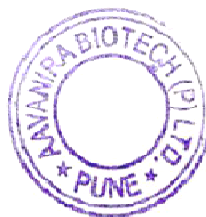
REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.

Verified By - 
Dr. Neeta Zatakia
Technical Manager


Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----

Authorized By - 
Sarita Upadhye
Technical Manager



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ENalyze*

Source Emission Monitoring Report		Report No. AB/HCPL/06/2019-20/510
Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/510
	Sample Location/Attached To	Boiler(S-3) 750 kg/hr
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	01:15 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	14	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Furnace Oil	--
5	Flue Gas Temperature	429	°K
6	Differential Pressure	2.8	mmWG
7	Velocity	7.08	m/s
8	Diameter of Stack	0.254	mtr.
9	Stack Area	0.0506	m ²
10	Gas Volume	896.50	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	59.91	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO ₂)	82.04	mg/Nm ³	--	IS:11255 (Part -2)-1985
		1.77	Kg/day	≤ 10	

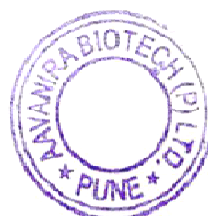
REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By - Dr. Neeta Zatakia
Technical Manager

Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----

Authorized By - Sarita Upadhye
Technical Manager



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Source Emission Monitoring Report		Report No. AB/HCPL/06/2019-20/511
Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/511
	Sample Location/Attached To	DG Set 160 KVA
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	01:45 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	11	mtr.
3	Type of Stack	Round	--
4	Fuel Type	H.S.D.	--
5	Flue Gas Temperature	383	°K
6	Differential Pressure	6.2	mmWG
7	Velocity	9.96	m/s
8	Diameter of Stack	0.1016	mtr.
9	Stack Area	0.0081	m ²
10	Gas Volume	226.01	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	39.14	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO ₂)	41.03	mg/Nm ³	--	IS:11255 (Part -2)-1985
		0.22	Kg/day	≤ 10	

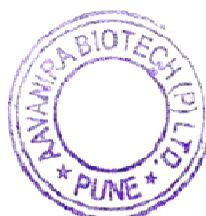
REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By - Dr. Neeta Zatakia
 Technical Manager

Govt. Analyst
 Dr. Bikash Aich
 Managing Director
 -----End of Report-----

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 Technical Manager



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Source Emission Monitoring Report Report No. AB/HCPL/06/2019-20/512

Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/512
	Sample Location/Attached To	Reactor Scrubber Stack - Inlet
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	02:15 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS


Sr. No.	Particulars	Details	Unit
1	Material of Stack	PVC	--
2	Stack Height from G.L.	6.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	--	--
5	Flue Gas Temperature	331	°K
6	Differential Pressure	2.4	mmWG
7	Velocity	5.76	m/s
8	Diameter of Stack	0.1016	mtr.
9	Stack Area	0.0081	m ²
10	Gas Volume	151.26	Nm ³ /Hr

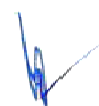
TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	25.2	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Bromine (Br)	1.26	ppm	≤ 3.0	US EPA Method 8A

REMARK / OBSERVATIONS:

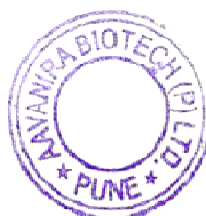
- All above results are within MPCB Limits.

Verified By - 
 Technical Manager


 Govt. Analyst
 Dr. Bikash Aich
 Managing Director

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


 Authorized By - Sarita Upadhye
 Technical Manager



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ENalyze*

Source Emission Monitoring Report Report No. AB/HCPL/06/2019-20/513

Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/513
	Sample Location/Attached To	Reactor Scrubber Stack - Outlet
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	02:50 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	PVC	--
2	Stack Height from G.L.	6.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	--	--
5	Flue Gas Temperature	312	°K
6	Differential Pressure	1.3	mmWG
7	Velocity	4.12	m/s
8	Diameter of Stack	0.1016	mtr.
9	Stack Area	0.0081	m ²
10	Gas Volume	114.66	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	12.62	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Bromine (Br)	0.59	ppm	≤ 3.0	US EPA Method 8A

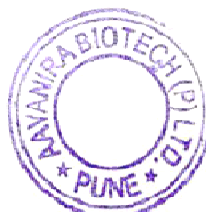
REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By - 
 Technical Manager

Govt. Analyst
 Dr. Bikash Aich
 Managing Director
 -----End of Report-----

Authorized By - 
 Technical Manager



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ENalyze*

Source Emission Monitoring Report		Report No. AB/HCPL/06/2019-20/514
Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/514
	Sample Location/Attached To	FBD Scrubber No. 01
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	03:20 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS


Sr. No.	Particulars	Details	Unit
1	Material of Stack	PVC	--
2	Stack Height from G.L.	6.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	--	--
5	Flue Gas Temperature	324	°K
6	Differential Pressure	1.6	mmWG
7	Velocity	4.65	m/s
8	Diameter of Stack	0.1016	mtr.
9	Stack Area	0.0081	m ²
10	Gas Volume	124.83	Nm ³ /Hr


TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	16.25	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Bromine (Br)	0.10	ppm	≤ 3.0	US EPA Method 8A

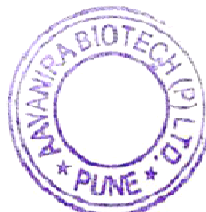
REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By - 
Dr. Neeta Zatakia
Technical Manager


Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----


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Technical Manager



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ENalyze*

Source Emission Monitoring Report Report No. AB/HCPL/06/2019-20/515

Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/515
	Sample Location/Attached To	FBD Scrubber No. 02
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	22/06/2019
	Time of Sampling	03:45 pm.
	Analysis Date	23/06/2019 to 29/06/2019
	Reporting date	29/06/2019
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/140
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS


Sr. No.	Particulars	Details	Unit
1	Material of Stack	PVC	--
2	Stack Height from G.L.	6.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	--	--
5	Flue Gas Temperature	311	°K
6	Differential Pressure	1.4	mmWG
7	Velocity	4.27	m/s
8	Diameter of Stack	0.1016	mtr.
9	Stack Area	0.0081	m ²
10	Gas Volume	119.18	Nm ³ /Hr

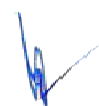
TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	16.9	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	Bromine (Br)	0.41	ppm	≤ 3.0	US EPA Method 8A

REMARK / OBSERVATIONS:

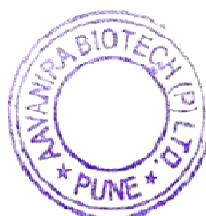
- All above results are within MPCB Limits.

Verified By - 
 Technical Manager


 Govt. Analyst
 Dr. Bikash Aich
 Managing Director

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


 Authorized By - Sarita Upadhye
 Technical Manager



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ENalyze*

Noise Monitoring Report			Report No. AB/HCPL/06/2019-20/516
Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/516	
	Sample Collected By	Technogreen Environmental Solutions.	
	Sample type	Noise	
	Method of Sampling	As per IS : 4758	
	Date of Sampling	22/06/2019	
	Reporting date	29/06/2019	
	Instrument Details	Sound Level Meter, KUSAM-MECO Sr. No. EH1457453	


Sr. No.	Test Location	Reading		Unit
		Day Time (11:30 am.)	Night Time (10:30 pm.)	
01	Near Main Gate	60.2	56.2	dB(A)
02	Near FBD	71.6	62.4	dB(A)
03	Near Boiler	73.2	65.7	dB(A)
04	Production Area	71.0	67.1	dB(A)

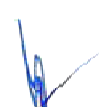
REMARK / OBSERVATIONS:


Limits: Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during day time & 70 dB (A) for night time.
Above results are within the prescribed limits.

Area	Category of Area	Limits dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	<75	<70
B	Commercial Area	<65	<55
C	Residential Area	<55	<45
D	Silence Zone	<50	<40
E	*As Per The Factory Act, 1948	90 dB (A)	

- **Note: 1 Day Time shall mean from 06:00 am to 10:00 pm**
- **Note: 2 Night Time shall mean from 10:00 pm to 06:00 am**

Verified By - 
Dr. Neeta Zatakia
Technical Manager


Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----


Authorized By - Sarita Upadhye
Technical Manager




Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company


ENalyze*

DG Insertion Loss Monitoring Report		Report No. AB/HCPL/06/2019-20/517
Name of Client & Address: M/s. Halide Chemicals Pvt. Ltd. A-2, MIDC Kurkumbh, Tal - Daund, Dist- Pune 413802.	Sample Code	AB/HCPL/06/2019-20/517
	Sample Collected By	Technogreen Environmental Solutions.
	Sample type	Noise (DG Insertion Loss)
	Method of Sampling	As per IS : 4758
	Date of Sampling	22/06/2019
	Reporting date	29/06/2019
	Instrument Details	Sound Level Meter, KUSAM-MECO Sr. No. EH1457453

Sr. No.	Test Location	DG ON (Open Door 0.5 Meter away)	DG ON (Closed Door 0.5 Meter away)					For Insertion Loss	Unit
			N1	N2	N3	N4	Avg.		
1	D. G. Set -160 KVA	98.6	71.9	74	72.8	72	72.68	25.93	dB(A)

REMARK / OBSERVATIONS: The acoustic enclosure /acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss for meeting the ambient noise standards, whichever is on higher side. Above results are within the prescribed limits by MPCB.

Verified By - 
Dr. Neeta Zatakia
Technical Manager


Govt. Analyst
Dr. Bikash Aich
Managing Director
-----End of Report-----


Authorized By - Sarita Upadhye
Technical Manager

