



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Himadri Speciality Chemical Ltd. (Carbon Black Div.)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/20/Feb./A/I	Report No.	: ENV/20/Feb./TR(A)/1/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: CPP Boiler (2 nos.) attached to common stack
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 12 MW & 8 MW
Emission Due to	: Combustion of Tail Gas
Fuel Used	: Tail Gas
Working Fuel Consumption	: 20,000 Nm ³ /hr.
Pollution Control Device	: Nil

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 224.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.42	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 173419.01	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 31.79	N.A.
7.	Concentration of CO ₂	%(v/v)	IS 13270 1992 RA 2003	: 5.0	1.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
9.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 19.38	50.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: During monitoring both heaters were in operation.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)

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Name of the Industry	: Himadri Speciality Chemical Ltd. (Carbon Black Div.)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/20/Feb./A/II	Report No.	: ENV/20/Feb./TR(A)/II/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: CBD Drier (Line - I)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 160 MT/Day
Emission Due to	: Combustion of Tail Gas
Fuel Used	: Tail Gas
Working Fuel Consumption	: 9750 Nm ³ /hr.
Pollution Control Device	: Nil
Height of Stack (mtr.) (from G. L.)	: 54.0
Stack I.D. at sampling point (mtr.)	: 1.80
Height of sampling port (mtr.) (from G.L.)	: 14.4
Permanent Platform & Ladder	: Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 194.7	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.35	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 60119.67	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 36.02	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 3.2	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 23.73	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
 : N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)



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Name of the Industry	: Himadri Speciality Chemical Ltd. (Carbon Black Div.)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/20/Feb./A/III	Report No.	: ENV/20/Feb./TR(A)/III/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: CBD Drier (Line – II)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 160 MT/Day
Emission Due to	: Combustion of Tail Gas
Fuel Used	: Tail Gas
Working Fuel Consumption	: 9750 Nm ³ /hr.
Pollution Control Device	: Nil

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 179.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.98	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 60025.26	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 26.36	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 2.8	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 15.67	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.

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(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/20/Feb./A/IV	Report No.	: ENV/20/Feb./TR(A)/IV/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: By Product (Naphthalene Plant) (T.F.H 4 nos. & Boiler 2 nos.) attached with common stack
Shape of Stack	: Circular
Materials of Construction	: M.S.
	Capacity
Emission Due to	: Combustion of L.S.F Oil
Fuel Used	: L.S.F. Oil
Working Fuel Consumption	: Boiler – 35 liter./hr. (each) & T.F.H – 121 liter./hr. (each)
Pollution Control Device	: Nil

B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 210.3	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.91	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 9916.78	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 37.67	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 5.4	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 25.34	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
 : N.A. means Not Available.
 : During monitoring only 3 nos. T.F.H were in operation.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

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Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/20/Feb./A/V	Report No.	: ENV/20/Feb./TR(A)/V/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fire Heater (No.531)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: --
Emission Due to	: Combustion of L.S.F Oil
Fuel Used	: L.S.F Oil
Working Fuel Consumption	: 100 liter./hr.
Pollution Control Device	: Nil

B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 187.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.89	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 12721.03	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 46.0	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 6.0	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 66.87	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.

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Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/20/Feb./A/VI	Report No.	: ENV/20/Feb./TR(A)/VI/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fire Heater (No.532)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: --
Emission Due to	: Combustion of L.S.F Oil
Fuel Used	: L.S.F Oil
Working Fuel Consumption	: 100 liter./hr.
Pollution Control Device	: Nil

B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 203.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.11	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 11412.90	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 38.64	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 6.2	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 42.34	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

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(Quality Manager)



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FORMAT NO.: ENV/FM/38

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/20/Feb./A/VII	Report No.	: ENV/20/Feb./TR(A)/VII/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: TP – 10 (No.1 & 2) (attached) (2 nos. TFH & 1 No. Boiler)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: Boiler – 600 kg./hr. TFH – 10,00,000 K-Cal/hr. (each)
Emission Due to	: Combustion of L.S.F Oil
Fuel Used	: L.S.F Oiler
Working Fuel Consumption	: Boiler – 40 liter./hr. T.F.H – 100 liter./hr. (each)
Pollution Control Device	: Nil

B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 142.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.30	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 10670.22	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 41.38	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 6.6	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11(Vol3 11.07) : 2011	: 24.71	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
 : N.A. means Not Available.
 : During monitoring only one T.F.H was in operation.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/20/Feb./A/VIII	Report No.	: ENV/20/Feb./TR(A)/VIII/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: NDU (Napthalene Distillation Unit) (TP – 20)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 20,00,000 K-Cal./hr.
Emission Due to	: Combustion of L.S.F Oil
Fuel Used	: L.S.F. Oil
Working Fuel Consumption	: 200 liter./hr.
Pollution Control Device	: Nil

B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 177.2	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.62	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 10267.11	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 48.54	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 5.8	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 41.11	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
 : N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021 – 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/IX	Report No.	: ENV/20/Feb./TR(A)/IX/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Building
2. Duration of Sampling : 24 hrs. (10:00 a.m. – 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 50.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	48.77	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	81.19	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.10	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	31.48	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.16	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	16.50	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	3.80	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
: N.A. means Not Available.
: Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

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Approved By :

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 Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021 – 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/X	Report No.	: ENV/20/Feb./TR(A)/X/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near S.N.F Area
2. Duration of Sampling : 24 hrs. (10:20 a.m. – 10:20 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 50.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	52.91	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	88.67	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	16.42	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	35.02	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.26	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	23.50	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	4.20	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021 – 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XI	Report No.	: ENV/20/Feb./TR(A)/XI/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near Molasses Area
2. Duration of Sampling : 24 hrs. (10:40 a.m. – 10:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 50.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	51.64	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	88.09	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.17	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	26.48	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.18	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	20.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	3.80	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 10.02.2021 – 11.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XII	Report No.	: ENV/20/Feb./TR(A)/XII/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near Canteen
2. Duration of Sampling : 24 hrs. (11:05 a.m. – 11:05 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 50.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	49.10	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	80.07	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.89	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	26.78	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.16	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	16.50	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	3.20	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)

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EST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021 – 12.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XIII	Report No.	: ENV/20/Feb./TR(A)/XIII/20-21

A] GENERAL INFORMATION

1. Location of Sampling : West Side of the Plant (Near Highway)
2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 758.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	56.20	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	89.10	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.60	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	36.48	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.42	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	4.60	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
: N.A. means Not Available.
: Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021 – 12.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XIV	Report No.	: ENV/20/Feb./TR(A)/XIV/20-21

A] GENERAL INFORMATION

1. Location of Sampling : East Side of the Plant (Near Village Medical Store)
2. Duration of Sampling : 24 hrs. (10:50 a.m. – 10:50 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 758.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	49.18	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	81.20	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.89	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	25.02	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.16	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	2.80	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021 – 12.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XV	Report No.	: ENV/20/Feb./TR(A)/XV/20-21

A] GENERAL INFORMATION

1. Location of Sampling : South Side of the Plant (Near Village Road Side)
2. Duration of Sampling : 24 hrs. (11:20 a.m. – 11:20 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 758.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	56.29	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	91.16	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.74	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	31.56	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.21	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	3.20	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

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ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017)
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Himadri Speciality Chemical Ltd. (Mahistikry Unit # 1)	Type of Industry	: Chemical Plant
Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.02.2021 – 12.02.2021
		Period of Analysis	: 12.02.2021 – 13.02.2021
		Date of Issue	: 15.02.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/20/Feb./A/XVI	Report No.	: ENV/20/Feb./TR(A)/XVI/20-21

A] GENERAL INFORMATION

1. Location of Sampling : North Side of the Plant (At Village)
2. Duration of Sampling : 24 hrs. (11:40 a.m. – 11:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 758.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	48.33	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	80.08	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.40	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	25.02	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.12	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m ³	USEPA Method 18, 1996	2.30	N.A.

Remarks : Result shows that all parameters are within limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
 : N.A. means Not Available.
 : Detection limit as per NABL Scope of Envirocheck for CO (<0.1), Pb (<0.01), BaP (<0.36), Benzene (<0.74), Ozone (<10.0), Ammonia (<4.18), Nickel (<0.02) and Arsenic (<0.01) are indicates that this parameters are Not Detected from Tested sample.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)
(Quality Manager)