



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
 Accredited by NABL (ISO/IEC 17025:2017)  
 Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



## 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	: 09.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/1	Report No.	: ENV/09/Nov./TR(A)/1/20-21

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: D. G. – 325 KVA (No.1) (Acoustic Enclosure)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 325 KVA
Emission Due to	: Combustion of H.S.D
Fuel Used	: H.S.D
Working Fuel Consumption	: 50 liter./hr.
Pollution Control Device	: Nil
Height of Stack (mtr.) (from G. L.)	: 13.41
Stack I.D. at sampling point (mtr.)	: 0.107
Height of sampling port (mtr.) (from G.L.)	: 5.48
Permanent Platform & Ladder	: Yes

### B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 186.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.98	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 863.43	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 65.07	N.A.
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 7.0	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 61.56	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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Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 09.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/09/Nov./A/II	Report No.	: ENV/09/Nov./TR(A)/II/20-21

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: D. G. – 725 KVA (No.2) (CTP) (Acoustic Enclosure)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 425 KVA
Emission Due to	: Combustion of H.S.D
Fuel Used	: H.S.D
Working Fuel Consumption	: 120 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)	: 327.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 18.15	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 2351.94	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 55.75	N.A.
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 7.4	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 42.04	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/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	: 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/III	Report No.	: ENV/09/Nov./TR(A)/III/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)	: 192.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.32	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 13045.40	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 32.48	N.A.
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 6.4	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 37.49	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/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	: 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/IV	Report No.	: ENV/09/Nov./TR(A)/IV/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
Height of Stack (mtr.) (from G. L.)	: 28.0
Stack I.D. at sampling point (mtr.)	: 0.8
Height of sampling port (mtr.) (from G.L.)	: 22.0
Permanent Platform & Ladder	: Yes

### B. RESULTS

Sl. No.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 197.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.63	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 10981.78	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 29.51	N.A.
6.	Concentration of CO <sub>2</sub>	% (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 <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 56.08	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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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	: 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/V	Report No.	: ENV/09/Nov./TR(A)/V/20-21

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fire Heater (No.542)
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)	: 185.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.49	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 9936.48	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 36.44	N.A.
6.	Concentration of CO <sub>2</sub>	% (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 <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol3 11.07) : 2011	: 42.80	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/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	: 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/VI	Report No.	: ENV/09/Nov./TR(A)/VI/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 <sup>3</sup> /hr.
Pollution Control Device	: Nil
Height of Stack (mtr.) (from G. L.)	: 73.0
Stack I.D. at sampling point (mtr.)	: 3.0
Height of sampling port (mtr.) (from G.L.)	: 24.0
Permanent Platform & Ladder	: Yes

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 175.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.22	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 186050.22	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 20.90	N.A.
7.	Concentration of CO <sub>2</sub>	%(v/v)	IS 13270 1992 RA 2003	: 3.4	1.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
9.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 13.60	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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Address	: P.O. & P.S. – Haripal, Hooghly – 712323	Sampling Date	: 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/VII	Report No.	: ENV/09/Nov./TR(A)/VII/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 <sup>3</sup> /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)	: 190.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.16	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 71256.07	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 21.71	N.A.
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 3.0	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 32.62	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/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	: 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/09/Nov./A/VIII	Report No.	: ENV/09/Nov./TR(A)/VIII/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 <sup>3</sup> /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)	: 180.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.27	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 67492.38	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 26.40	N.A.
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 2.4	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 26.04	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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# ENVIROCHECK

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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	: 09.11.2020 – 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/X	Report No.	: ENV/09/Nov./TR(A)/X/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Building
2. Duration of Sampling : 24 hrs. (10:20 a.m. – 10:20 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.5
2. Average Relative Humidity (%) : 78.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	42.10	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	83.44	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.81	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	26.46	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.20	2.0
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996		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 18<sup>th</sup> 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	: 09.11.2020 – 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/IX	Report No.	: ENV/09/Nov./TR(A)/IX/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : Near S.N.F Area
2. Duration of Sampling : 24 hrs. (10:00 a.m. – 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.5
2. Average Relative Humidity (%) : 78.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	45.03	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	81.42	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.15	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	35.0	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	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 <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	2.60	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 18<sup>th</sup> 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	: 09.11.2020 – 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XI	Report No.	: ENV/09/Nov./TR(A)/XI/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : Near Molasses Area
2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.5
2. Average Relative Humidity (%) : 78.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	46.23	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	80.16	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.87	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	30.02	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	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 <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	2.50	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 18<sup>th</sup> 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	: 09.11.2020 – 10.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XII	Report No.	: ENV/09/Nov./TR(A)/XII/20-21

### A] GENERAL INFORMATION

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

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.5
2. Average Relative Humidity (%) : 78.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	43.78	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	85.83	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.66	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	26.86	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.15	2.0
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	1.50	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 18<sup>th</sup> 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)  
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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	: 10.11.2020 – 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XIII	Report No.	: ENV/09/Nov./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. (10:00 a.m. – 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	54.16	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	93.05	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.51	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	31.83	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.25	2.0
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	1.80	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 18<sup>th</sup> 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)  
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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	: 10.11.2020 – 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XVI	Report No.	: ENV/09/Nov./TR(A)/XVI/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : East Side of the Plant (Near Village Medical Store)
2. Duration of Sampling : 24 hrs. (10:40 a.m. – 10:40 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	42.88	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	82.46	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.81	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	25.04	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	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 <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	2.50	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 18<sup>th</sup> 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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 Overseas : UAE ■ Qatar ■ Netherlands





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
 Accredited by NABL (ISO/IEC 17025:2017)  
 Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



## 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	: 10.11.2020 – 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XIV	Report No.	: ENV/09/Nov./TR(A)/XIV/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : South Side of the Plant (Near Village Road Side)
2. Duration of Sampling : 24 hrs. (10:15 a.m. – 10:15 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	40.85	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	78.20	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.32	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	28.04	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	0.15	2.0
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	1.20	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 18<sup>th</sup> 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)  
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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	: 10.11.2020 – 11.11.2020
		Period of Analysis	: 11.11.2020 – 12.11.2020
		Date of Issue	: 17.11.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/09/Nov./A/XV	Report No.	: ENV/09/Nov./TR(A)/XV/20-21

### A] GENERAL INFORMATION

1. Location of Sampling : North Side of the Plant (At Village)
2. Duration of Sampling : 24 hrs. (10:25 a.m. – 10:25 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 756.0
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 <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	44.22	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	79.19	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.23	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	29.94	80.0
5.	Concentration of CO	mg/m <sup>3</sup>	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 <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec 11 (Vol. 11.07) : 2011	<0.36	1.0
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec 11 (Vol. 11.07) : 2011	<0.74	5.0
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01	6.0
13.	Volatile Organic Carbon	µg/m <sup>3</sup>	USEPA Method 18, 1996	2.10	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 18<sup>th</sup> 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.

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