



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Ambient Air Monitoring Report

Report No.	ME/NS/001300/11.04.05/SA/Indiabulls/Nashik		Date: 05/04/2011
Name and Address of Customer	Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320000384 dt 28.10.2010
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near weigh bridge	Sample Quantity/Packing	PM ₁₀ , Bap, Metals: Filter Paper:1 x 3 no. PM _{2.5} : Filter Paper:1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 30 ml x 6 no. plastic bottle CO: Plastic bulb 1 x 3 no. Ozone: 30 ml x 6 no. plastic bottle Benzene: Charcoal tubes: 1 x 12 no.
Date of Sampling	22/03/2011 To 23/03/2011	Date of Receipt of Sample	23/03/2011
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	24/03/2011	Date of Completion of Analysis	03/04/2011

Meteorological Data				
Average Wind velocity 1.34 km/h		Relative Humidity (Max/min) : 55/11 %		Temperature (Max/min) : 34/16 °C
Location : Near weigh bridge			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	<3	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	32.1	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	82	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	37	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	62	µg/m ³	100	APHA , Method No. 820, Page No. 836
Lead (Pb)	0.03	µg/m ³	1	US EPA Method: EPA/625/ R-96/0109/IO-3.1, 3.2



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Report No. ME/NS/001300/11.04.05/SA/Indiabulls/Nashik Cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	APHA method no.130, Page 359
Ammonia (NH ₃)	32	µg/m ³	400	APHA method no. 401, Page 511
Benzene (C ₆ H ₆)	<3.47	µg/m ³	5	IS 5182 (Part 11):2006
Benzo (a) Pyrene (BaP) – particulate phase only	<0.5	ng/m ³	1	IS 5182 (Part 12):2004
Arsenic (As)	<0.3	ng/m ³	6	US EPA Method: EPA/625/ R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	5.21	ng/m ³	20	US EPA Method: EPA/625/ R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	Inductively Coupled Plasma Spectrometer

Notes:

N.D.: Not Detected.

TWA: Time Weighted Average.

*: Denotes Grab Sampling

#: NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 8 hours TWA in case of Carbon Monoxide, 1 hour TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel, Mercury.

End

for Mahabal Enviro Engineers Pvt. Ltd.

Harish Mendhi

Technical Manager

AUTHORISED SIGNATORY



Note :

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Ambient Air Monitoring Report

Report No.	ME/NS/001301/11.04.05/SA/Indiabulls/Nashik		Date: 05/04/2011
Name and Address of Customer	Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320000384 dt 28.10.2010
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler Turbine Generator Area	Sample Quantity/Packing	PM ₁₀ , Bap, Metals: Filter Paper:1 x 3 no. PM _{2.5} : Filter Paper:1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 30 ml x 6 no. plastic bottle CO: Plastic bulb 1 x 3 no. Ozone: 30 ml x 6 no. plastic bottle Benzene: Charcoal tubes: 1 x 12 no.
Date of Sampling	22/03/2011 To 23/03/2011	Date of Receipt of Sample	23/03/2011
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	24/03/2011	Date of Completion of Analysis	03/04/2011

Meteorological Data				
Average Wind velocity 1.34 km/h		Relative Humidity (Max/min) : 55/11 %		Temperature (Max/min) : 34/16 °C
Location : Near Boiler House			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	<3	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	27.5	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	72	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	51	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	41	µg/m ³	100	APHA , Method No. 820, Page No. 836
Lead (Pb)	0.04	µg/m ³	1	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Report No. ME/NS/001301/11.04.05/SA/Indiabulls/Nashik Cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	APHA method no.130, Page 359
Ammonia (NH ₃)	23	µg/m ³	400	APHA method no. 401, Page 511
Benzene (C ₆ H ₆)	3.21	µg/m ³	5	IS 5182 (Part 11):2006
Benzo (a) Pyrene (BaP) – particulate phase only	N.D.	ng/m ³	1	IS 5182 (Part 12):2004
Arsenic (As)	<0.3	ng/m ³	6	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	5.12	ng/m ³	20	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	Inductively Coupled Plasma Spectrometer

Notes:

N.D.: Not Detected.


TWA: Time Weighted Average.

*: Denotes Grab Sampling

#: NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 8 hours TWA in case of Carbon Monoxide, 1 hour TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel, Mercury.

-----End-----

for **Mahabal Enviro Engineers Pvt. Ltd.**


Harish Mendhi

Technical Manager

AUTHORISED SIGNATORY



Note :

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Ambient Air Monitoring Report

Report No.	ME/NS/001302/11.04.05/SA/Indiabulls/Nashik		Date: 05/04/2011
Name and Address of Customer	Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320000384 dt 28.10.2010
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near IRL Office	Sample Quantity/Packing	PM ₁₀ , Bap, Metals: Filter Paper:1 x 3 no. PM _{2.5} : Filter Paper:1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 30 ml x 6 no. plastic bottle CO: Plastic bulb 1 x 3 no. Ozone: 30 ml x 6 no. plastic bottle Benzene: Charcoal tubes: 1 x 12 no.
Date of Sampling	22/03/2011 To 23/03/2011	Date of Receipt of Sample	23/03/2011
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	24/03/2011	Date of Completion of Analysis	03/04/2011

Meteorological Data				
Average Wind velocity 1.34 km/h		Relative Humidity (Max/min) : 55/11 %		Temperature (Max/min) : 34/16 °C
Location : Near IRL Office			Duration of Survey : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	<3	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	N.D.	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm)or PM ₁₀	78	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm)or PM _{2.5}	47	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	63	µg/m ³	100	APHA , Method No. 820, Page No. 836
Lead (Pb)	0.06	µg/m ³	1	US EPA Method: EPA/625/ R-96/0109/ IO-3.1, 3.2



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : nagpur@mahabal.com

Report No. ME/NS/001302/11.04.05/SA/Indiabulls/Nashik Cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	APHA method no.130, Page 359
Ammonia (NH ₃)	74	µg/m ³	400	APHA method no. 401, Page 511
Benzene (C ₆ H ₆)	<3.47	µg/m ³	5	IS 5182 (Part 11):2006
Benzo (a) Pyrene (BaP) - particulate phase only	N.D.	ng/m ³	1	IS 5182 (Part 12):2004
Arsenic (As)	<0.3	ng/m ³	6	US EPA Method: EPA/625/ R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	3.84	ng/m ³	20	US EPA Method: EPA/625/ R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	Inductive Coupled Plasmamembrane Spectrometer

Notes:

N.D.: Not Detected.

TWA: Time Weighted Average.

*: Denotes Grab Sampling

#: NAAQS specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 8 hours TWA in case of Carbon Monoxide, 1 hour TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel, Mercury.

-----End-----

for Mahabal Enviro Engineers Pvt. Ltd.

Harish Mendhi

Technical Manager

AUTHORISED SIGNATORY



Note :

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.