



Ambient Air Monitoring Report

Report No.	ME/NS/001489/11.07.16/SA/Indiabulls/Nashik		Date: 16/07/2011
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) 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	08/07/2011 To 09/07/2011	Date of Receipt of Sample	09/07/2011
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	09/07/2011	Date of Completion of Analysis	15/07/2011

Meteorological Data				
Average Wind velocity 1.8 km/h		Relative Humidity (Max/min) : 77/76 %		Temperature (Max/min) : 26/23 °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)	26.3	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	69	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	23	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	58	µg/m ³	100	APHA , Method No. 820, Page No. 836
Lead (Pb)	0.05	µg/m ³	1	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2



Mahabal Enviro Engineers Pvt. Ltd.

Plot No. 13/14, Opp. Patel Petrol Pump, Chinndwara Road, Koradi, Dist. Nagpur – 411 111

Report No. ME/NS/001489/11.07.16/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)	28	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)	4.2	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, PM ₁₀ , 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.



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Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler House	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.
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Meteorological Data				
Average Wind velocity 1.8 km/h		Relative Humidity (Max/min) : 77/76 %		Temperature (Max/min) : 26/23 °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)	36.2	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	68	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	41	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	45	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



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*Carbon Monoxide (CO)	N.D.	mg/m ³	2	APHA method no.130, Page 359
Ammonia (NH ₃)	28	µg/m ³	400	APHA method no. 401, Page 511
Benzene (C ₆ H ₆)	2.9	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)	3.29	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

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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.
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Meteorological Data				
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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)	11	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	60	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	39	µg/m ³	60	Fine Particulate air sampler
Ozone (O ₃)	61	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



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*Carbon Monoxide (CO)	N.D.	mg/m ³	2	APHA method no.130, Page 359
Ammonia (NH ₃)	71	µg/m ³	400	APHA method no. 401, Page 511
Benzene (C ₆ H ₆)	2.81	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)	4.12	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.

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