



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur – 441111

Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0317-120915-SA-INDIABUL-NASHIK		Date: 15.09.2012
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. 3320001083 Date: 18.11.2011
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near IRL Office	Sample Quantity/Packing	PM ₁₀ , Bap, Ni, As, Pb: 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. Mercury: 30 mL X 6 No. amber colour bottle
Date of Sampling	07.09.2012 to 08.09.2012	Date of Receipt of Sample	10.09.2012
Sampling Procedure	CPCB Guidelines and IS 5182 (Part 23):2006; (Part 2):2001, RA 2006; (Part 6):2006; (Part 10):1999, RA 2003; (Part 11):2006; (Part 12):2004 & USEPA/625/R-96/010		
Date of Start of Analysis	10.09.2012	Date of Completion of Analysis	14.09.2012

Meteorological Data				
Average Wind velocity 1.04 km/h		Relative Humidity (Max/min) : 91/63 %		Temperature (Max/min) : 27/22 °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)	10.8	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	8.6	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	25	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	BDL (DL: 10)	µg/m ³	60	Instrument Manufacturer Operating Instructions.

Page 1 of 2



Report No. 0317 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Ozone (O ₃)	42.0	µg/m ³	100	APHA Method No. 820, Page No. 836
Lead (Pb)	BDL (DL: 0.02)	µg/m ³	1	US EPA Method: EPA/625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	IS: 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	BDL (DL: 20)	µg/m ³	400	APHA method No. 401, Page No. 511
Benzene (C ₆ H ₆)	BDL (DL: 1)	µg/m ³	5	IS 5182 (Part 11):2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL: 0.5)	ng/m ³	1	IS 5182 (Part 12):2004
Arsenic (As)	BDL (DL: 0.3)	ng/m ³	6	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling, #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 8 h. TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



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.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur – 441111

Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0315-120915-SA-INDIABUL-NASHIK		Date: 15.09.2012
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. 3320001083 Date: 18.11.2011
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler Turbine area	Sample Quantity/Packing	PM ₁₀ , Bap, Ni, As, Pb: 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. O ₃ : 10 mL X 6 No. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber colour bottle
Date of Sampling	07.09.2012 to 08.09.2012	Date of Receipt of Sample	10.09.2012
Sampling Procedure	CPCB Guidelines and IS 5182 Part 2:2001, RA 2006; Part 6:2006; Part 23:2006; Part 10:1999, RA 2003; Part 11:2006; Part 12:2004 & USEPA/625/R-96/010		
Date of Start of Analysis	10.09.2012	Date of Completion of Analysis	14.09.2012

Meteorological Data				
Average Wind velocity 1.04 km/h		Relative Humidity (Max./min.) : 91/63 %		Temperature (Max./min.) : 27/22°C
Location : Near Boiler Turbine area			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)	11.5	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	7.8	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	39	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	BDL (DL: 10)	µg/m ³	60	Instrument Manufacturer Operating Instructions.

Page 1 of 2



Report No. 0315 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Ozone (O ₃)	59.0	µg/m ³	100	APHA Method No. 820, Page No. 836
Lead (Pb)	BDL (DL: 0.02)	µg/m ³	1	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	IS: 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	BDL (DL: 20)	µg/m ³	400	APHA Method No. 401, Page No. 511
Benzene (C ₆ H ₆)	BDL (DL: 1)	µg/m ³	05	IS 5182 (Part 11):2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.5)	ng/m ³	01	IS 5182 (Part 12):2004
Arsenic (As)	BDL (DL:0.3)	ng/m ³	06	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling, #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 8 h. TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

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



Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111

Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Ambient Air Quality Monitoring Report

Report No.	ME-NS0316-120915-SA-INDIABUL-NASHIK		Date: 15.09.2012
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. 3320001083 Date: 18.11.2011
Sample Description /Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near weigh bridge	Sample Quantity/Packing	PM ₁₀ , Bap, As, Ni, Pb 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. O ₃ : 10 mL X 6 No. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
Date of Sampling	07.09.2012 to 08.09.2012	Date of Receipt of Sample	10.09.2012
Sampling Procedure	CPCB Guidelines and IS 5182 (Part 23):2006; (Part 2):2001, RA 2006; (Part 6):2006; (Part 10):1999, RA 2003; (Part 11):2006; (Part 12):2004 & USEPA/625/R-96/010		
Date of Start of Analysis	10.09.2012	Date of Completion of Analysis	14.09.2012

Meteorological Data				
Average Wind velocity 1.04 km/h		Relative Humidity (Max./min.) : 91/63 %		Temperature (Max./min.) : 27/22 °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)	12.2	µg/m ³	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO ₂)	23.3	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM ₁₀	34	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM _{2.5}	BDL (DL:10)	µg/m ³	60	Instrument Manufacturer Operating Instructions.

Page 1 of 2



Report No. 0316 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Ozone (O ₃)	39.6	µg/m ³	100	APHA Method No. 820, Page No. 836
Lead (Pb)	BDL (DL: 0.02)	µg/m ³	1	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m ³	2	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH ₃)	BDL (DL: 20)	µg/m ³	400	APHA method No. 401, Page No. 511
Benzene (C ₆ H ₆)	BDL (DL: 1)	µg/m ³	5	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (BaP) – particulate phase only	BDL (DL: 0.5)	ng/m ³	1	IS 5182 (Part 12): 2004
Arsenic (As)	BDL (DL: 0.3)	ng/m ³	6	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Nickel (Ni)	BDL (DL: 3)	ng/m ³	20	US EPA Method: EPA/625/R-96/0109/ IO-3.1, 3.2
Mercury	N.D.	ng/m ³	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling, #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia, 8 h. TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

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