



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0298-140217-SA-INDIABUL-NASHIK		Date: 17.02.2014	
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
			Verbal discussion
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler House	Sample Quantity/Packing	PM ₁₀ , B(a)P, 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 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
Date of Sampling	10.02.2014 to 11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	17.02.2014

Meteorological Data				
Average Wind velocity 0.34 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	64	10	27	15
Location : Near Boiler House		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0298 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	75	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	13	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	µg/m ³	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Carbon Monoxide (CO)	mg/m ³	0.80	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C ₆ H ₆)	µg/m ³	1.23	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40
Arsenic (As)	ng/m ³	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Nickel (Ni)	ng/m ³	4.2	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m ³	N.D.	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) 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; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Harish Mendhi
TECHNICAL MANAGER


Note:

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0299-140217-SA-INDIABUL-NASHIK		Date: 17.02.2014	
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
			Verbal discussion
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near IRL Office	Sample Quantity/Packing	PM ₁₀ , B(a)P, 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 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
Date of Sampling	10.02.2014 to 11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	17.02.2014

Meteorological Data				
Average Wind velocity 0.34 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		64	10	27
Location : Near IRL Office		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0299 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	80	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 31
Lead (Pb)	µg/m ³	0.03	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Carbon Monoxide (CO)	mg/m ³	0.65	02	APHA Method No. 130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 35
Benzene (C ₆ H ₆)	µg/m ³	2.12	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 40
Arsenic (As)	ng/m ³	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Nickel (Ni)	ng/m ³	4.4	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Mercury	ng/m ³	N.D.	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) 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; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Harish Mendhi
TECHNICAL MANAGER


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Ambient Air Quality Monitoring Report

Report No. : ME-NS0300-140217-SA-INDIABUL-NASHIK		Date: 17.02.2014	
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
			Verbal discussion
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Weigh Bridge	Sample Quantity/Packing	PM ₁₀ , B(a)P, 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 24 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 12 No. Mercury: 30 mL X 6 No. Amber Colour Bottle
Date of Sampling	10.02.2014 to 11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	17.02.2014

Meteorological Data				
Average Wind velocity 0.34 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		64	10	27
Location : Near Weigh Bridge		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	<4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	<3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0300 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 11
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	41	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 31
Lead (Pb)	µg/m ³	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Carbon Monoxide (CO)	mg/m ³	0.86	02	APHA Method No. 130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 35
Benzene (C ₆ H ₆)	µg/m ³	1.62	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 40
Arsenic (As)	ng/m ³	1.1	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Nickel (Ni)	ng/m ³	3.8	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 48
Mercury	ng/m ³	N.D.	-	APHA Method No. 318, Page No. 492
Remarks: N.D. – Not Detected, TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) 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; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel				

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Water Sample Analysis Report

Report No. : ME-NS0296-140217-SA-INDIABULLS-NASHIK		Date: 17.02.2014	
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
			Verbal discussion
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 500 mL X 1 No. Sterilize Glass Bottle
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	IS 1622: 1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	12.02.2014	Date of Completion of Analysis	17.02.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	0.5	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.7	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	6	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	988	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.9	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	316	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	764	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	147	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	96.7	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

Report No. 0296 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr ⁺⁶)	mg/L	<0.02	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	0.19	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	0.02	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	5.24	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-C, 4-27
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	202	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	177	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.28	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	53.5	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Harish Mendhi
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Water Sample Analysis Report

Report No. : ME-NS0295-140217-SA-INDIABULLS-NASHIK		Date: 17.02.2014	
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
			Verbal discussion
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 500 mL X 1 No. Sterilize Glass Bottle
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	12.02.2014	Date of Completion of Analysis	17.02.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	2	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	5	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.9	6.5-8.5	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92
5.	Suspended Solids	mg/L	12	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	824	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.0	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	176	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	576	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	115	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	70.5	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

Report No. 0295 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr ⁺⁶)	mg/L	<0.02	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	<0.08	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	0.02	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	0.07	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.29	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	198	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	95.0	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.26	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	58.3	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd Ed. 2012, 5530- B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	/100 mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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TECHNICAL MANAGER



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

Water Sample Analysis Report

Report No. : ME-NS0294-140217-SA-INDIABULLS-NASHIK			Date: 17.02.2014
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
			As per your PO No.3320001083 dated 18.11.2011 amended on 16.01.2014
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Gulwanch	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	12.02.2014	Date of Completion of Analysis	17.02.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen Units	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	1.2	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.2	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	8	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1096	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.4	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	268	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	420	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	53.7	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	69.5	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0294 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr ⁺⁶)	mg/L	0.04	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	0.59	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	0.02	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.70	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.05	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	217	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	136	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	1.2	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	62.1	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

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

Water Sample Analysis Report

Report No. : ME-NS0297-140218-SA-INDIABULLS-NASHIK		Date: 18.02.2014	
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. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.02.01.2013
Sample Description/Type	Drinking Water	Sample Collected by	Laboratory
Sampling Location	IRL Office (Pantry) Cooler Outlet	Sample Quantity/Packing	5 L X 1 No. Plastic Can 250 mL X 1 No. Sterile Glass Bottle
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Sampling Procedure	IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012,1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	17.02.2014

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen Unit	1	Max. 5	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	0.1	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	7.4	6.5-8.5	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	5	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Biochemical Oxygen Demand (3 days 27 ^o C)	mg/L	1.2	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	5	-	APHA, 22 nd Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	<1	-	APHA, 22 nd Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	12	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.1	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

Report No. 0297 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	7	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	8	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	0.4	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	1.7	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	mg/L	<0.01	Max. 0.01	IS 3025 (Part 2): 2004
17.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004
18.	Chromium (as Cr ⁺⁶)	mg/L	<0.02	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
19.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
20.	Iron (as Fe-Dissolved)	mg/L	<0.08	-	APHA, 22 nd Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	<0.08	-	APHA, 22 nd Ed. 2012, 3111-B, 3-18
22.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	mg/L	<0.02	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	mg/L	<0.01	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	mg/L	<0.2	-	IS 3025 (Part 2): 2004
29.	Sodium (as Na)	mg/L	1.9	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.2	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

Report No. 0297 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	3.0	Max. 250	APHA, 22 nd Ed. 2012, 4500-Cl, B,4-72
32.	Sulphate (as SO ₄)	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	<0.05	Max. 1	APHA, 22 nd Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO ₄)	mg/L	<0.03	-	APHA, 22 nd Ed. 2012, 4500 P, E, 4-155
35.	Nitrate (as NO ₃)	mg/L	<0.5	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	1.1	-	APHA, 22 nd Ed. 2012, 4500-SiO ₂ , D,4-169
37.	Hydrogen Sulphide (as H ₂ S)	mg/L	<0.08	-	APHA 22 nd Ed. 2012, 4500-S ² , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	2.64	-	APHA, 22 nd Ed. 2012, 4500-CO ₂ -C, 4-31
39.	Permanganate Value at 37 ^o C	mg/L	<0.1	-	IS 3025 (Part 63): 2007
Microbiological Analysis					
40.	Total Coliforms	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
41.	E. coli	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks					

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

Noise Monitoring Report

Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) (Phase-I) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
Date of Sampling – 10.02.2014 to 11.02.2014	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	12.40 h	68
		01.10 h	58
2.	Near IRL Office	13.20 h	64
		01.40 h	52
3.	Near Boiler Area	13.45 h	67
		02.00 h	57
Noise Level Standards			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

END

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Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

Soil Sample Analysis Report

Report No. : ME-NS0301-140215-SA-INDIABULLS-NASHIK		Date: 15.02.2014	
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
			Verbal discussion
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	14.02.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	4.20	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.6	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.171	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.31	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	192	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	42.1	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	435	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	68.1	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	280	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	24.0	FAO Sec. III .7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

WLII- Wildlife Institute of India.

FAO- Food & Agriculture Organization, United Nations.

-----END-----

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

Soil Sample Analysis Report

Report No. : ME-NS0302-140215-SA-INDIABULLS-NASHIK		Date: 15.02.2014	
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
			Verbal discussion
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg X 1 No. plastic Bag
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	14.02.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	9.94	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.6	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.211	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.58	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	160	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	45.2	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	201	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	43.7	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	392	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	29.2	FAO Sec. III .7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

WLII- Wildlife Institute of India.

FAO- Food & Agriculture Organization, United Nations.

-----END-----

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

Soil Sample Analysis Report

Report No. : ME-NS0303-140215-SA-INDIABULLS-NASHIK		Date: 15.02.2014	
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
			Verbal discussion
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. plastic Bag
Date of Sampling	11.02.2014	Date of Receipt of Sample	11.02.2014
Date of Start of Analysis	11.02.2014	Date of Completion of Analysis	14.02.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Gravel	P. K. Behera Book
2.	Moisture	%	4.9	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.3	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.133	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.48	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	181	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	41.4	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	381	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	67.9	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	359	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	33.0	FAO Sec. III .7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

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