



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-NS0080-140816-SA-INDIABUL-NASHIK		Date: 16.08.2014	
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.16.01.2014
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	07.08.2014 to 08.08.2014	Date of Receipt of Sample	08.08.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	08.08.2014	Date of Completion of Analysis	14.08.2014

Meteorological Data				
Average Wind velocity 1.60 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		91	73	28
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	4.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0080 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}	$\mu\text{g}/\text{m}^3$	64	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11
Particulate Matter (size less than 2.5 μm) or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	12	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15
Ozone (O_3)	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31
Lead (Pb)	$\mu\text{g}/\text{m}^3$	<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	1.58	04	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35
Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	3.18	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	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48
Mercury	ng/m^3	<0.1	-	APHA, Method No. 318, Page No. 492
<p>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}, $\text{PM}_{2.5}$, 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</p>				

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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-NS0081-140816-SA-INDIABUL-NASHIK		Date: 16.08.2014	
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.16.01.2014
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	07.08.2014 to 08.08.2014	Date of Receipt of Sample	08.08.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	08.08.2014	Date of Completion of Analysis	14.08.2014

Meteorological Data				
Average Wind velocity 1.60 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		91	73	28
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	8.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0081 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	73	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	12	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	1.49	02	IS 5182 (Part 10):1999 RA 2003
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	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	0.33	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	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Mercury	ng/m ³	<0.1	-	APHA, Method No. 318, Page No. 492
<p>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, PM₁₀, 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</p>				

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TECHNICAL MANAGER



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Ambient Air Quality Monitoring Report

Report No. : ME-NS0082-140816-SA-INDIABUL-NASHIK		Date: 16.08.2014	
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.16.01.2014
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	07.08.2014 to 08.08.2014	Date of Receipt of Sample	08.08.2014
Sampling Procedure	As per method reference		
Date of Start of Analysis	08.08.2014	Date of Completion of Analysis	14.08.2014

Meteorological Data				
Average Wind velocity 1.60 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		91	73	28
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. 0082 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	44	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	10	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	1.60	02	IS 5182 (Part 10):1999 RA 2003
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	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	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Mercury	ng/m ³	<0.1	-	APHA, Method No. 318, Page No. 492
<p>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, PM₁₀, 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</p>				

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Water Sample Analysis Report

Report No. : ME-NS0078-140813-SA-INDIABULLS-NASHIK		Date: 13.08.2014	
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 P.O. No.3320001083 Dtd. 8.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Gulvanch	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 ml X 1 No. Sterile Glass Bottle
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
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	08.08.2014	Date of Completion of Analysis	13.08.2014

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.	1.8	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.3	6.5-8.5	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92
5.	Suspended Solids	mg/L	13	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	972	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.9	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	250	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	320	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	48.1	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	48.6	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	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

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Report No. 0078 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	0.12	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	0.04	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	1.37	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	328	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, RA 2009
27.	Fluoride (as F)	mg/L	0.85	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	73.8	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.


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Water Sample Analysis Report

Report No. : ME-NS0079-140813-SA-INDIABULLS-NASHIK		Date: 13.08.2014	
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 P.O. No. 3320001083 Dtd 18.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Kedarpur	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 ml X 1 No. Sterile Glass Bottle
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
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	08.08.2014	Date of Completion of Analysis	13.08.2014

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.	9.2	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	33	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	704	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	90	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	384	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	88.2	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	39.9	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	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
14.	Cadmium (as Cd)	mg/L	<0.002	Max. 0.003	IS 3025 (Part 2): 2004

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Report No. 0079 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	0.64	Max. 0.3	APHA 22 nd Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	mg/L	0.16	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	mg/L	39.9	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	mg/L	<0.005	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	0.14	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.33	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	211	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	98.8	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.16	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	71.0	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

-----END-----

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Water Sample Analysis Report

Report No. : ME-NS0077-140813-SA-INDIABULLS-NASHIK		Date: 13.08.2014	
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 P.O. No. 3320001083 Dtd. 18.11.2011,(Amendment Dtd.16.01.2014)
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Musalgaon	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 mL X 1 No. Sterile Glass Bottle
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
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	08.08.2014	Date of Completion of Analysis	13.08.2014

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, RA 2006
3.	Turbidity	N.T.U.	0.7	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	1060	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	282	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	664	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	120	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	88.5	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	<0.005	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0077 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	<0.02	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.04	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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.42	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	368	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	123	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.3	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	65.9	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
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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Noise Monitoring Report

Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
Date of Sampling – 07.08.2014 to 08.08.2014	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	12.00 h	66
		02.20 h	52
2.	Near IRL Office	12.40 h	64
		02.50 h	50
3.	Near Boiler House	13.00 h	69
		03.10 h	54
Noise Level Standards			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

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Water Sample Analysis Report

Report No. : ME-NS0086-140813-SA-INDIABULLS-NASHIK		Date: 13.08.2014	
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 P.O. No. 3320001083 Dtd. 18.11.2011, (Amendment Dtd. 16.01.2014)
Sample Description/Type	Water	Sample Collected by	Laboratory
Sampling Location	IRL New Field Hostel RO Outlet	Sample Quantity/Packing	5 L X 1 No. Plastic Can 300 mL X 1 No. DO Glass Bottle 250 mL X 1 No. Sterile Glass Bottle
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
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	08.08.2014	Date of Completion of Analysis	13.08.2014

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	-	7.0	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°C)	mg/L	<1	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	<4	-	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	22	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.0	-	IS 3025 (Part 38): 1989, Reaffirmed 2009



Report No. 0086 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	10	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	2	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	<0.24	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	mg/L	<0.005	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)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
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	0.13	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	3.8	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	4.3	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

Report No. 0086 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	4.5	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	0.73	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	3.43	-	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	0.88	-	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	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
41.	<i>E. coli</i>	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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Soil Sample Analysis Report

Report No. : ME-NS0083-140812-SA-INDIABULLS-NASHIK		Date: 12.08.2014	
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 P.O. No. 3320001083 Dtd 18.11.2011, (Amendment & Dtd 16.01.2014))
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
Date of Start of Analysis	09.08.2014	Date of Completion of Analysis	12.08.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	11.8	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.90	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.144	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.37	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	212	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	364	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	58.5	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	345	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	48.2	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.

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Soil Sample Analysis Report

Report No. : ME-NS0084-140812-SA-INDIABULLS-NASHIK		Date: 12.08.2014	
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 P.O. No. 3320001083 Dtd 18.11.2011, (Amendment Dtd 16.01.2014))
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
Date of Start of Analysis	09.08.2014	Date of Completion of Analysis	12.08.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	9.96	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.42	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.320	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.85	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	197	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	48.4	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	282	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	39	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	401	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	53.0	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.

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

Soil Sample Analysis Report

Report No. : ME-NS0085-140812-SA-INDIABULLS-NASHIK		Date: 12.08.2014	
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 P.O. No. 3320001083 Dtd 18.11.2011, (Amendment Dtd 16.01.2014))
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Gulwanch	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	08.08.2014	Date of Receipt of Sample	08.08.2014
Date of Start of Analysis	09.08.2014	Date of Completion of Analysis	12.08.2014

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	11.3	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.54	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.255	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.56	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	238	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	31.5	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	436	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	34.1	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	281	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	41.3	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.

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