



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
Plot 13/14 & 17/18 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111
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Ambient Air Quality Monitoring Report

Report No. : ME-NS0155-130825-SA-INDIABUL-NASHIK		Date: 25.08.2013	
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	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	16.08.2013 to 17.08.2013	Date of Receipt of Sample	18.08.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	18.08.2013	Date of Completion of Analysis	24.08.2013

Meteorological Data				
Average Wind velocity 0.93 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	23
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	12.5	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	13.6	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	84	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
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Continuation Sheet

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Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	31	60	CPCB Guidelines Vol. -I
Ozone (O ₃)	µg/m ³	64.2	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	3.1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks:

N.D. - Not Detected, TWA - Time Weighted Average. *- Denotes Grab Sampling

#- NAAQS 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.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0156-130825-SA-INDIABUL-NASHIK		Date: 25.08.2013	
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	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	16.08.2013 to 17.08.2013	Date of Receipt of Sample	18.08.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	18.08.2013	Date of Completion of Analysis	24.08.2013

Meteorological Data				
Average Wind velocity 0.93 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	23
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	8.6	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	12.4	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	74	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Continuation Sheet

Report No. 0156 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	27	60	CPCB Guidelines Vol. -I
Ozone (O ₃)	µg/m ³	52.7	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	2.2	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks:

N.D. - Not Detected, TWA - Time Weighted Average. *- Denotes Grab Sampling

#- NAAQS 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.

END

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0157-130825-SA-INDIABUL-NASHIK		Date: 25.08.2013	
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	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	16.08.2013 to 17.08.2013	Date of Receipt of Sample	18.08.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	18.08.2013	Date of Completion of Analysis	24.08.2013

Meteorological Data				
Average Wind velocity 0.93 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	64	29	23
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	11.6	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	14.6	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	78	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Continuation Sheet

Report No. 0157 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	34	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	57.2	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m ³	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	N.D.	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	µg/m ³	<20	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	µg/m ³	2.5	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m ³	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m ³	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m ³	N.D.	-	APHA, Method No. 318, Page No. 492

Remarks:

N.D. - Not Detected, TWA - Time Weighted Average. *- Denotes Grab Sampling

#- NAAQS 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.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

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Water Sample Analysis Report

Report No. : ME-NS0148-130823-SA-INDIABULLS-NASHIK		Date: 23.08.2013	
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	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	18.08.2013	Date of Receipt of Sample	19.08.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	19.08.2013	Date of Completion of Analysis	23.08.2013

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.	1.4	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.02	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	760	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.3	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	234	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	386	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	43.3	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	67.6	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	<0.01	Max. 0.01	IS 3025 (Part 2): 2004

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Continuation Sheet

Report No. 0148 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	<0.02	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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.80	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B, 4-25
24.	Residual free chlorine	mg/L	<0.01	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	222	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	141	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	1.12	Max. 1	APHA 22 nd Ed. 2012, 4500-F, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	16.4	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.	E.coli	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Water Sample Analysis Report

Report No. : ME-NS0149-130823-SA-INDIABULLS-NASHIK		Date: 23.08.2013	
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	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 250 mL X 1 No. Sterilised Glass Bottle
Date of Sampling	18.08.2013	Date of Receipt of Sample	19.08.2013
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	19.08.2013	Date of Completion of Analysis	23.08.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	3	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.	3.5	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.07	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	15	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	362	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	226	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	216	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	39.2	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	28.7	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

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Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Continuation Sheet

Report No. 0149 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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.25	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.01	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	51.5	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	38.8	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.40	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	9.02	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
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

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Water Sample Analysis Report

Report No. : ME-NS0150-130823-SA-INDIABULLS-NASHIK			Date: 23.08.2013
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd. (Multiproduct SEZ), Village – Musalgaon & Guivanch, Tal.- Sinnar, Nashik.		Order Reference
			Your Work Order No. 3520000054 Dt. 18.11.2011 Amendment:1 Dt.02.01.2013
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
Date of Sampling	18.08.2013	Date of Receipt of Sample	19.08.2013
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	19.08.2013	Date of Completion of Analysis	23.08.2013

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.	0.3	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.76	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	980	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	302	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	784	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	156	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	96.2	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

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Continuation Sheet

Report No. 0150 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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	5.91	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-C, 4-27
24.	Residual free chlorine	mg/L	<0.01	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	173	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.64	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	16.2	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

Remark: BDL- Below Detection Limit, DL- Detection Limit.

END

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Water Sample Analysis Report

Report No. : ME-NS0151-130823-WA-INDIABULLS-NASHIK			Date: 23.08.2013
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	Field Hostel	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	18.08.2013	Date of Receipt of Sample	19.08.2013
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	19.08.2013	Date of Completion of Analysis	22.08.2013

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	-	7.85	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	<0.5	-	APHA, 22 nd Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	56	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	6.3	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

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Continuation Sheet

Report No. 0151 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	N.D.	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	19	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	20	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	4.4	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	2.2	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	18	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.9	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

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Continuation Sheet

Report No. 0151 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	7.5	Max. 250	APHA, 22 nd Ed. 2012, 4500-Cl, B, 4-72
32.	Sulphate (as SO ₄)	mg/L	2.1	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	3.68	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	1.35	-	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 25°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: BDL: Below Detection Limit, DL: Detection Limit.					

END

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Soil Sample Analysis Report

Report No. : ME-NS0152-130823-SA-INDIABULLS-NASHIK		Date: 23.08.2013	
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	Soil	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	18.08.2013	Date of Receipt of Sample	19.08.2013
Date of Start of Analysis	19.08.2013	Date of Completion of Analysis	22.08.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	3.90	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.49	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.146	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	2.2	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	319	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	33	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	212	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	170	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	521	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	103	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-NS0153-130823-SA-INDIABULLS-NASHIK		Date: 23.08.2013	
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	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg X 1 No. plastic Bag
Date of Sampling	18.08.2013	Date of Receipt of Sample	19.08.2013
Date of Start of Analysis	19.08.2013	Date of Completion of Analysis	22.08.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	2.53	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.30	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.136	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	2.16	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	303	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	31.8	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	155	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	146	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	560	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	79.4	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-NS0154-130823-SA-INDIABULLS-NASHIK		Date: 23.08.2013	
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	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. plastic Bag
Date of Sampling	18.08.2013	Date of Receipt of Sample	19.08.2013
Date of Start of Analysis	19.08.2013	Date of Completion of Analysis	22.08.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	9.97	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.59	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.123	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	1.73	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	276	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	27.8	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	197	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	122	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	641	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	72.6	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

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.



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra

(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)

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Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
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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 ~ 16.08.2013 to 17.08.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	13.10 h	68
		01.20 h	52
2.	Near IRL Office	13.40 h	62
		01.50 h	50
3.	Near Boiler Area	14.20 h	64
		02.30 h	57
Noise Level Standards			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

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