



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0238-131114-SA-INDIABUL-NASHIK		Date: 14.11.2013	
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	07.11.2013 to 08.11.2013	Date of Receipt of Sample	09.11.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	14.09.2013

Meteorological Data				
Average Wind velocity 0.88 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	80	42	27	18
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	13.7	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	12.6	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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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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Continuation Sheet

Report No. 0238 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	32	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	70.4	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	<0.05	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	1.9	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.

Harsh Mendhi

TECHNICAL MANAGER

Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
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Ambient Air Quality Monitoring Report

Report No. : ME-NS0239-131114-SA-INDIABUL-NASHIK		Date: 14.11.2013	
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 12No. Mercury: 30 mL X 6 No. Amber Colour Bottle
Date of Sampling	07.11.2013 to 08.11.2013	Date of Receipt of Sample	09.11.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	14.11.2013

Meteorological Data				
Average Wind velocity 0.88 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	80	42	27	18
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	14.8	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	15.4	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	76	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I

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Continuation Sheet

Report No. 0239 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	39	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	µg/m ³	68.4	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	<0.05	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	2.1	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

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0240-131114-SA-INDIABUL-NASHIK			Date: 14.11.2013
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	07.11.2013 to 08.11.2013	Date of Receipt of Sample	09.11.2013
Sampling Procedure	As per method reference		
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	14.11.2013

Meteorological Data				
Average Wind velocity 0.88 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	80	42	27	18
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	16.8	80	IS 5182 (Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	µg/m ³	17.2	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM ₁₀	µg/m ³	79	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I





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Continuation Sheet

Report No. 0240 cont...

Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Particulate Matter (size less than 2.5 μ m) or PM _{2.5}	μ g/m ³	40	60	CPCB Guidelines Vol.-I
Ozone (O ₃)	μ g/m ³	75	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	μ g/m ³	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m ³	<0.05	02	APHA Method No.130, Page 359
Ammonia (NH ₃)	μ g/m ³	<20	400	APHA Method No. 401, Page 511
Benzene (C ₆ H ₆)	μ g/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

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Water Sample Analysis Report

Report No. : ME-NS0234-131112-SA-INDIABULLS-NASHIK		Date: 14.11.2013	
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 250 mL X 1 No. Sterilised Glass Bottle
Date of Sampling	07.11.2013	Date of Receipt of Sample	08.11.2013
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	08.11.2013	Date of Completion of Analysis	14.11.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen Units	2	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	APHA 22 nd Ed. 2012, 2130-8, 2-13
4.	pH	-	7.8	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	780	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	376	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	460	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	80.1	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	63.2	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

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Continuation Sheet

Report No. 0234 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	0.12	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	0.62	Max. 0.5	APHA 22 nd Ed. 2012, 4500-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	252	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	150	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.78	Max. 1	APHA 22 nd Ed. 2012, 4500-F, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	22.1	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
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:					

END

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Water Sample Analysis Report

Report No. : ME-NS0235-131112-SA-INDIABULLS-NASHIK		Date: 12.11.2013	
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	07.11.2013	Date of Receipt of Sample	07.11.2013
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	07.11.2013	Date of Completion of Analysis	11.11.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
1.	Colour	Hazen	5	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.	15.1	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.86	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	10	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	716	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.8	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	227	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	480	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	109	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	50.5	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

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Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Continuation Sheet

Report No. 0235 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	0.05	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	0.26	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	172	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO ₄)	mg/L	74.3	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.31	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	19.9	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.	E. coli	/100 mL	Present	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remark:					

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Water Sample Analysis Report

Report No. : ME-NS0236-131122-SA-INDIABULLS-NASHIK		Date: 22.11.2013	
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	Musalgaon	Sample Quantity/Packing	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle
Date of Sampling	17.11.2013	Date of Receipt of Sample	17.11.2013
Sampling Procedure	IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012, 1060 B		
Date of Start of Analysis	17.11.2013	Date of Completion of Analysis	21.11.2013

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.	1.6	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	8.22	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	860	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	260	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	396	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	51.3	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	65.1	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. 0236 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	0.50	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	227	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	0.54	Max. 1	APHA 22 nd Ed. 2012, 4500-F, D, 4-87
28.	Nitrate (as NO ₃)	mg/L	22.1	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

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Water Sample Analysis Report

Report No. : ME-NS0237-131112-SA-INDIABULLS-NASHIK		Date: 12.11.2013	
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 RO Outlet	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	07.11.2013	Date of Receipt of Sample	08.11.2013
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	08.11.2013	Date of Completion of Analysis	12.11.2013

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	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.44	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, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	<1	-	IS 3025 (Part 44): 1993, Reaffirmed 2003, 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	18	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





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Continuation Sheet

Report No. 0237 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	12.6	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	6	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	0.80	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	0.97	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	0.113	-	APHA, 22 nd Ed. 2012, 3111-B, 3-18
22.	Lead (as Pb)	mg/L	0.017	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	mg/L	0.06	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	3.5	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.5	-	IS 3025 (Part 45): 1993, Reaffirmed 2009

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Continuation Sheet

Report No. 0237 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	2.0	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	0.04	-	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	0.42	-	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	4.45	-	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:					

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Soil Sample Analysis Report

Report No. : ME-NS0245-131113-SA-INDIABULLS-NASHIK		Date: 13.11.2013	
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	07.11.2013	Date of Receipt of Sample	09.11.2013
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	13.11.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	5.4	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.02	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.276	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	3.1	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	307	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	47	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	251	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	164	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	607	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	62.4	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-NS0246-131113-SA-INDIABULLS-NASHIK		Date: 13.11.2013	
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	07.11.2013	Date of Receipt of Sample	09.11.2013
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	13.11.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	4.02	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.32	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	%	2.82	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	339	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	43.5	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	182	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	502	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	74.2	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-NS0247-131113-SA-INDIABULLS-NASHIK		Date: 13.11.2013	
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	07.11.2013	Date of Receipt of Sample	09.11.2013
Date of Start of Analysis	09.11.2013	Date of Completion of Analysis	13.11.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	5.28	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.51	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.164	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	2.85	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	311	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	36.7	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	194	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	152	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	546	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	74.8	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.

Haresh Mendhi

TECHNICAL MANAGER

Note:

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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)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

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 – 07.11.2013 to 08.11.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	14.10 h	68
		03.00 h	53
2.	Near IRL Office	14.40 h	64
		03.20 h	50
3.	Near Boiler Area	15.20 h	63
		04.00 h	55
Noise Level Standards			
Area Code	Area Type	Limit in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

END

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