



# Mahabal Enviro Engineers Pvt. Ltd.

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

Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Ambient Air Quality Monitoring Report

<b>Report No.</b>	ME-NS0602-130218-SA-INDIABULLS-NASHIK		<b>Date:</b> 18.02.2013
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near Boiler Turbine Area	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , BaP, Ni, As, Pb: Filter Paper:1 X 3 no. PM <sub>2.5</sub> : Filter Paper:1 X 1 no. SO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NH <sub>3</sub> :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O <sub>3</sub> :10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
<b>Date of Sampling</b>	09.02.2013 to 10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	16.02.2013

Meteorological Data				
<b>Average Wind velocity</b> 2.88 km/h		<b>Relative Humidity (Max./min.)</b> : 73/26 %		<b>Temperature (Max./min.)</b> : 30/15°C
<b>Location</b> : Near Boiler Turbine Area			<b>Duration of Survey</b> : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	6.6	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	16.0	µg/m <sup>3</sup>	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	58	µg/m <sup>3</sup>	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	60	CPCB Guidelines Vol. I

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Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Ozone (O <sub>3</sub> )	81	µg/m <sup>3</sup>	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	0.02	µg/m <sup>3</sup>	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m <sup>3</sup>	02	APHA method no.130, Page 359
Ammonia (NH <sub>3</sub> )	BDL (DL:20)	µg/m <sup>3</sup>	400	APHA Method no. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	4.41	µg/m <sup>3</sup>	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.5)	ng/m <sup>3</sup>	01	IS 5182 (Part 12): 2004
Arsenic (As)	0.52	ng/m <sup>3</sup>	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL:3)	ng/m <sup>3</sup>	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	N.D.	ng/m <sup>3</sup>	-	APHA, Method No. 318, Page no. 492
<b>Remarks:</b> ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average. *- Denotes Grab Sampling #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia, 8 h. TWA in case of Carbon Monoxide, 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

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**FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.**
  
 Harish Mendhi  
**TECHNICAL MANAGER**


Note:

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.



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## Ambient Air Quality Monitoring Report

<b>Report No.</b>	ME-NS0603-130218-SA-INDIABUL-NASHIK		<b>Date:</b> 18.02.2013
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near IRL Office	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , BaP, Ni, As, Pb: Filter Paper:1 X 3 no. PM <sub>2.5</sub> : Filter Paper:1 X 1 no. SO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NH <sub>3</sub> :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O <sub>3</sub> :10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
<b>Date of Sampling</b>	09.02.2013 to 10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	16.02.2013

Meteorological Data				
<b>Average Wind velocity</b> 2.88 km/h		<b>Relative Humidity (Max./min.)</b> : 73/26 %		<b>Temperature (Max./min.)</b> : 30/15°C
<b>Location</b> : Near IRL Office			<b>Duration of Survey</b> : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	BDL (DL:4)	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	20	µg/m <sup>3</sup>	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	48	µg/m <sup>3</sup>	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	60	CPCB Guidelines Vol. I

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Report No. 0603 cont...

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Ozone (O <sub>3</sub> )	74	µg/m <sup>3</sup>	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL:0.02)	µg/m <sup>3</sup>	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m <sup>3</sup>	02	APHA method no.130, Page 359
Ammonia (NH <sub>3</sub> )	BDL (DL:20)	µg/m <sup>3</sup>	400	APHA Method no. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	4.63	µg/m <sup>3</sup>	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.5)	ng/m <sup>3</sup>	01	IS 5182 (Part 12): 2004
Arsenic (As)	0.47	ng/m <sup>3</sup>	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL:3)	ng/m <sup>3</sup>	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	N.D.	ng/m <sup>3</sup>	-	APHA, Method No. 318, Page no. 492
<p><b>Remarks:</b>            ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average.            *- Denotes Grab Sampling            #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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>				

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

**TECHNICAL MANAGER**

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## Ambient Air Quality Monitoring Report

<b>Report No.</b>	ME-NS0604-130218-SA-INDIABUL-NASHIK		<b>Date:</b> 18.02.2013
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near Weigh Bridge	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , BaP, Ni, As, Pb: Filter Paper:1 X 3 no. PM <sub>2.5</sub> : Filter Paper:1 X 1 no. SO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NO <sub>2</sub> :30 mL X 6 no. Plastic Bottle NH <sub>3</sub> :30 mL X 6 no. Plastic Bottle CO: Plastic bulb 1 X 3 no. O <sub>3</sub> :10 mL X 24 no. Plastic Bottle Benzene: Charcoal tubes: 1 X 12 no. Mercury: 30 mL X 6 no. Amber colour bottle
<b>Date of Sampling</b>	09.02.2013 to 10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	16.02.2013

Meteorological Data				
<b>Average Wind velocity</b> 2.88 km/h		<b>Relative Humidity (Max./min.)</b> : 73/26 %		<b>Temperature (Max./min.)</b> : 30/15°C
<b>Location</b> : Near Weigh Bridge			<b>Duration of Survey</b> : 24 hours	
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	4.6	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	23	µg/m <sup>3</sup>	80	IS 5182 (Part 6): 2006 & CPCB Guidelines
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	91	µg/m <sup>3</sup>	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	16	µg/m <sup>3</sup>	60	CPCB Guidelines Vol. I

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Report No. 0604 cont...

Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Ozone (O <sub>3</sub> )	83	µg/m <sup>3</sup>	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	0.02	µg/m <sup>3</sup>	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	N.D.	mg/m <sup>3</sup>	02	APHA method no.130, Page 359
Ammonia (NH <sub>3</sub> )	BDL (DL:20)	µg/m <sup>3</sup>	400	APHA Method no. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.28	µg/m <sup>3</sup>	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	BDL (DL:0.5)	ng/m <sup>3</sup>	01	IS 5182 (Part 12): 2004
Arsenic (As)	0.54	ng/m <sup>3</sup>	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	BDL (DL:3)	ng/m <sup>3</sup>	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	N.D.	ng/m <sup>3</sup>	-	APHA, Method No. 318, Page no. 492

**Remarks:**

ND – Not Detected, BDL- Below Detection Limit, DL- Detection Limit, TWA - Time Weighted Average.

\*- Denotes Grab Sampling

#- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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.

  
 Hariish Mendhi  
**TECHNICAL MANAGER**



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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0597-130215-SA-INDIABULLS-NASHIK		<b>Date:</b> 15.02.2013
<b>Name and Address of Customer</b>	<b>INDIABULLS REALTECH LTD. (SEZ Co-Developer)</b> Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work order under process
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Field Hostel R.O. Outlet	<b>Sample Quantity/Packing</b>	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle 250 mL X 1 no. Sterile Glass Bottle
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	IS 1622:1981, Reaffirmed 2009 & IS 3025 (Part-1):1987, Reaffirmed 1998 & APHA, 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39, 9060 B, 9-35		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	14.02.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	1	Hazen Unit	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-6
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	0.4	N.T.U.	Max. 1	IS 3025 (Part 5): 1983, Reaffirmed 2006
4.	pH	6.40	-	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand (3 days, 27 <sup>o</sup> C)	1	mg/L	-	IS 3025 (Part 44): 1993, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	3	mg/L	-	APHA 22 <sup>nd</sup> Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	BDL (DL:0.5)	mg/L	-	APHA 22 <sup>nd</sup> Ed. 2012, 5220-B, 5-40
9.	Total Dissolved Solids	38	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006
10.	Dissolved Oxygen	7.2	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

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Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	BDL (DL:1)	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	23	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	14	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
14.	Calcium (as Ca)	2.38	mg/L	Max. 75	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-B, 3-67
15.	Magnesium (as Mg)	1.93	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
17.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
18.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	Max. 0.05	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Cr-B, 3-69
19.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
20.	Iron (as Fe-Dissolved)	BDL (DL:0.08)	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	BDL (DL:0.08)	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 3111-B, 3-18
22.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	BDL (DL:0.01)	mg/L	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	BDL (DL:0.1)	mg/L	-	IS 3025 (Part 2): 2004
29.	Sodium(as Na)	6.8	mg/L	-	IS 3025 (Part45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	0.2	mg/L	-	IS 3025 (Part 45): 1993, Reaffirmed 2009



Report No. 0597 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	5.38	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B,4-72
32.	Sulphate (as SO <sub>4</sub> )	BDL (DL:1)	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	0.25	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO <sub>4</sub> )	0.16	mg/L	-	APHA, 22 <sup>nd</sup> Ed. 2012 , 4500 P,E, 4-155
35.	Nitrate (as NO <sub>3</sub> )	3.35	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012 ,4500-NO <sub>3</sub> ,B-4-122
36.	Dissolved Silica (as SiO <sub>2</sub> )	1.61	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-SiO <sub>2</sub> , D,4-169
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	BDL (DL:0.08)	mg/L	-	IS 5182 (Part VII): 1973, Reaffirmed 2009,Amds.1
38.	Carbon Dioxide	1.83	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 4500- CO <sub>2</sub> C,4-31
39.	Permanganate Value at 25 <sup>o</sup> C	BDL (DL:0.1)	mg/L	-	IS 3025 (Part 63): 2007
<b>Microbiological Analysis</b>					
40	Total Coliforms	Absent	/100mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
41.	E. coli	Absent	/100mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-G, 9-76
<b>Remarks:</b> BDL: Below Detection Limit, DL: Detection Limit.					

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Harish Mendhi  
**TECHNICAL MANAGER**



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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0596-130216-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.02.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Musalgaon	<b>Sample Quantity/Packing</b>	5 L X 1 No. Plastic Can 1 L X 1 No. Glass Bottle 250 ml x 1 No. sterile glass bottle
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 <sup>nd</sup> Ed.2012,1060 B,1-39,9060 B,9-35		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	15.02.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	1	Hazen Units	Max. 5	APHA, 22 <sup>nd</sup> Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Disagreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	Turbidity	0.4	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B,2-13
5.	pH	7.11	-	6.5-8.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-H <sup>+</sup> -B, 4-92
6.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	824	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	5.4	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	299	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	703	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
11.	Calcium (as Ca)	119	mg/L	Max. 75	APHA,22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
12.	Magnesium (as Mg)	98.6	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
14.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004



Report No. 0596 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Cr-B, 3-69
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
19.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
22.	Selenium (as Se)	0.01	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
23.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
24.	Boron (as B)	1.79	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
25.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
26.	Chloride (as Cl)	186	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
27.	Sulphate (as SO <sub>4</sub> )	78.4	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.80	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
29.	Nitrate (as NO <sub>3</sub> )	25.1	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 <sup>nd</sup> Ed., 2012, 5530-B & C, 5-44 & 5-47
32.	Mineral Oil	BDL (DL:0.005)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Bacteriological Analysis</b>					
33.	Total Coliforms	Present	/100mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
34.	E.Coli	Present	/100mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76
<b>Remark:</b> BDL- Below Detection Limit, DL- Detection Limit.					

-END-

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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0595-130216-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.02.2013
<b>Name and Address of Customer</b>	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulwanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Gulwanch	<b>Sample Quantity/Packing</b>	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	IS 1622:1981,Reaffirmed 2009 & IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 <sup>nd</sup> Ed.2012,1060 B,1-39,9060 B,9-35		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	15.02.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	1	Hazen Units	Max. 5	APHA, 22 <sup>nd</sup> Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Disagree Able	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	Turbidity	1.2	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B,2-13
5.	pH	7.51	-	6.5-8.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-H <sup>+</sup> -B, 4-92
6.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	776	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	285	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	525	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
11.	Calcium (as Ca)	63.5	mg/L	Max. 75	APHA,22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
12.	Magnesium (as Mg)	89.1	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
14.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

Report No. 0595 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Cr-B, 3-69
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
19.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
22.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
23.	Zinc (as Zn)	0.42	mg/L	Max. 5	IS 3025 (Part 2): 2004
24.	Boron (as B)	0.68	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
25.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
26.	Chloride (as Cl)	225	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
27.	Sulphate (as SO <sub>4</sub> )	63.8	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	1.12	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
29.	Nitrate (as NO <sub>3</sub> )	25.2	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 <sup>nd</sup> Ed., 2012, 5530-B & C, 5-44 & 5-47
32.	Mineral Oil	BDL (DL:0.05)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Microbiological Analysis</b>					
33.	Total Coliforms	Present	/100 mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
34.	<i>E. coli</i>	Present	/100 mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-G, 9-76
<b>Remark:</b> BDL- Below Detection Limit, DL- Detection Limit.					

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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0587-130216-WA-INDIABULLS-NASHIK		<b>Date:</b> 16.02.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Ground Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Kedarpur	<b>Sample Quantity/Packing</b>	5 L X 1 no. Plastic Can 1 L X 1 no. Glass Bottle
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Sampling Procedure</b>	IS 3025 (Part-1):1987,Reaffirmed 1998 & APHA,22 <sup>nd</sup> Ed.2012,1060 B,1-39		
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	14.02.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	2	Hazen Units	Max. 5	APHA, 22 <sup>nd</sup> Ed., 2012, 2120-B, 2-26
2.	Odour	Agreeable	-	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Agreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	Turbidity	2.1	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B,2-13
5.	pH	7.41	-	6.5-8.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-H <sup>+</sup> -B, 4-92
6.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	720	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	5.5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	305	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	411	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
11.	Calcium (as Ca)	73.4	mg/L	Max. 75	APHA,22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
12.	Magnesium (as Mg)	55.4	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
14.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0587 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500:2012	Method Reference
15.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Cr-B, 3-69
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed., 2012, 3111-B, 3-18
19.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
22.	Selenium (as Se)	0.005	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
23.	Zinc (as Zn)	0.26	mg/L	Max. 5	IS 3025 (Part 2): 2004
24.	Boron (as B)	0.50	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
25.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1(2004-02)
26.	Chloride (as Cl)	194	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
27.	Sulphate (as SO <sub>4</sub> )	40.3	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.85	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
29.	Nitrate (as NO <sub>3</sub> )	50	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-CN, C & E, 4-39 & 4-44
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 22 <sup>nd</sup> Ed., 2012, 5530-B & C, 5-44 & 5-47
32.	Mineral Oil	BDL (DL:0.005)	mg/L	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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## Noise Monitoring Report

<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd. (SEZ Co-Developer) (Phase-I)</b> Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.
<b>Date of Sampling</b> – 09.02.2013 to 10.02.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near weigh bridge	15.10 h	69
		02.00 h	48
2.	Near IRL Office	15.40 h	64
		02.40 h	44
3.	Near Boiler Area	16.20 h	68
		03.10 h	49
<b>Noise Level Standards</b>			
<b>As per MPCB Limit</b>			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-----END-----

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**TECHNICAL MANAGER**



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## Soil Sample Analysis Report

<b>Report No.</b>	ME-NS0584-130215-SA-INDIABULLS-NASHIK		<b>Date:</b> 15.02.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b> Work Order Under Process
	<b>Sample Description /Type</b>	Soil	<b>Sample Collected by</b> Laboratory
<b>Sampling Location</b>	Gulvanch	<b>Sample Quantity/Packing</b>	1 kg X 1 No. plastic bag
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	14.02.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Gravel	-	P. K. Behera Book
2.	Moisture	1.91	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	7.77	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.227	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.69	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	260	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	44.4	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	392	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	146	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	360	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	27.3	meq/100g	FAO Sec. III .7-2, Page No. 104

### Remarks:

**Note-** All results are on air dry basis.

**WLII-** Wildlife Institute of India.

**FAO-** Food & Agriculture Organization, United Nations.

END

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## Soil Sample Analysis Report

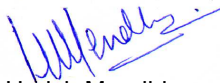
<b>Report No.</b>	ME-NS0585-130215-SA-INDIABULLS-NASHIK		<b>Date:</b> 15.02.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Work Order Under Process
<b>Sample Description /Type</b>	Soil	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Kedarpur	<b>Sample Quantity/Packing</b>	1 kg x 1 No. Plastic bag
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	14.02.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Gravel	-	P. K. Behera Book
2.	Moisture	4.68	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	7.88	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.132	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.51	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	329	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	43	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	180	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	146	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	521	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	30.8	meq/100g	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.

Page 1 of 1

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
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## Soil Sample Analysis Report

<b>Report No.</b>	ME-NS0586-130215-SA-INDIABULLS-NASHIK		<b>Date:</b> 15.02.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village - Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		<b>Order Reference</b> Work Order Under Process
<b>Sample Description /Type</b>	Soil	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Musalgaon	<b>Sample Quantity/Packing</b>	1 kg x 1 No. Plastic bag
<b>Date of Sampling</b>	10.02.2013	<b>Date of Receipt of Sample</b>	11.02.2013
<b>Date of Start of Analysis</b>	11.02.2013	<b>Date of Completion of Analysis</b>	14.02.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Gravel	-	P. K. Behera Book
2.	Moisture	4.02	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	7.97	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25 °C)	0.130	Mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.49	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	309	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	42.1	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	167	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	122	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	481	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	135	meq/100g	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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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

**TECHNICAL MANAGER**



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