



# 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-NS0667-130319-SA-INDIABUL-NASHIK		<b>Date:</b> 19.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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>	07.03.2013 to 08.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.03.2013	<b>Date of Completion of Analysis</b>	18.03.2013

Meteorological Data				
<b>Average Wind velocity</b> 1.35 km/h		<b>Relative Humidity (Max./min.)</b> : 73/11 %		<b>Temperature (Max./min.)</b> : 35/21°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> )	5.2	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	26	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>	84	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>	29	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> )	96	µg/m <sup>3</sup>	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL:0.5)	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> )	1.97	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)	0.40	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 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour 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:**

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

<b>Report No.</b>	ME-NS0668-130319-SA-INDIABUL-NASHIK		<b>Date:</b> 19.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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>	07.03.2013 to 08.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.03.2013	<b>Date of Completion of Analysis</b>	18.03.2013

Meteorological Data				
<b>Average Wind velocity</b> 1.35 km/h		<b>Relative Humidity (Max./min.)</b> : 73/11 %		<b>Temperature (Max./min.)</b> : 35/21°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> )	5.1	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	28	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>	39	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>	15	µg/m <sup>3</sup>	60	CPCB Guidelines Vol. I

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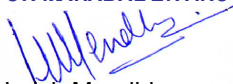
Parameter	Result	Unit	# National Ambient Air Quality Standards (NAAQS)(Industrial , Residential, Rural and other Area)	Method Reference
Ozone (O <sub>3</sub> )	79	µg/m <sup>3</sup>	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	BDL (DL:0.02)	µg/m <sup>3</sup>	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 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> )	3.62	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)	0.48	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 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
 Harish Mendhi  
**TECHNICAL MANAGER**



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## Ambient Air Quality Monitoring Report

<b>Report No.</b>	ME-NS0669-130319-SA-INDIABULLS-NASHIK		<b>Date:</b> 19.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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>	07.03.2013 to 08.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	11.03.2013	<b>Date of Completion of Analysis</b>	18.03.2013

Meteorological Data				
<b>Average Wind velocity</b> 1.35 km/h		<b>Relative Humidity (Max./min.)</b> : 73/11 %		<b>Temperature (Max./min.)</b> : 35/21°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> )	6.8	µg/m <sup>3</sup>	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines
Nitrogen Dioxide (NO <sub>2</sub> )	22	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>	67	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>	18	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> )	71	µg/m <sup>3</sup>	100	APHA, Method No. 820, Page No. 836
Lead (Pb)	0.03	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> )	4.02	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)	BDL (DL:0.3)	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 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour 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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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0666-130316-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	IRL Canteen	<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>	09.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<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>	10.03.2013	<b>Date of Completion of Analysis</b>	15.03.2013

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	2	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	BDL (DL:0.1)	N.T.U.	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	8.23	-	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°C)	2.0	mg/L	-	IS 3025 (Part 44):1993, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	7	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	40	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> )	20	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	20	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
14.	Calcium (as Ca)	4.8	mg/L	Max. 75	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-B, 3-67
15.	Magnesium (as Mg)	1.9	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
16.	Arsenic (as As)	BDL (DL:0.005)	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)	4.9	mg/L	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	BDL (DL:0.06)	mg/L	-	IS 3025 (Part 45): 1993, Reaffirmed 2009



Report No. 0666 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	4.9	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)	BDL (DL:0.05)	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO <sub>4</sub> )	BDL (DL:0.03)	mg/L	-	APHA, 22 <sup>nd</sup> Ed. 2012 , 4500 P,E, 4-155
35.	Nitrate (as NO <sub>3</sub> )	3.69	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> )	1.69	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	1.79	mg/L	-	APHA, 22 <sup>nd</sup> Ed., 2012, 4500- CO <sub>2</sub> C,4-31
39.	Permanganate Value at 25°C	BDL (DL:0.1)	mg/L	-	IS 3025 (Part 63): 2007
<b>Microbiological Analysis</b>					
40	Total Coliforms	Present	/100mL	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
41.	<i>E. coli</i>	Present	/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-NS0665-130316-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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
<b>Date of Sampling</b>	09.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<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>	10.03.2013	<b>Date of Completion of Analysis</b>	15.03.2013

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	Agreeble	-	Agreeble	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	BDL (DL:0.1)	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B,2-13
4.	pH	7.89	-	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.	Total Dissolved Solids	1384	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	5.1	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	293	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	683	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	131	mg/L	Max. 75	APHA,22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	86.6	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012 , 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0665 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3500-Cr-B, 3-69
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	BDL (DL:0.08)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	7.29	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
24.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1(2004-02)
25.	Chloride (as Cl)	200	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	364	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.48	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	19.6	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
29.	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
30.	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
31.	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-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

**TECHNICAL MANAGER**

Note:

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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0663-130316-SA-INDIABULLS-NASHIK		<b>Date:</b> 16.03.2013
<b>Name and Address of Customer</b>	<b>Indiabulls Realtech Ltd.</b> (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village - Musalgaon & Gulwanch, Tal- Sinnar, Nashik.		<b>Order Reference</b>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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>	09.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<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>	10.03.2013	<b>Date of Completion of Analysis</b>	15.03.2013

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.	Turbidity	1.3	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B, 2-13
4.	pH	8.06	-	6.5-8.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	7	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Total Dissolved Solids	1186	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	5.8	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	370	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	704	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	79.4	mg/L	Max. 75	APHA,22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	123	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0663 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3500-Cr-B, 3-69
16.	Copper (as Cu)	0.02	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	BDL (DL:0.08)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	1.13	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
24.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	280	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	164	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.8	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	20.9	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
29.	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
30.	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
31.	Mineral Oil	BDL (DL:0.005)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Microbiological Analysis</b>					
32.	Total Coliforms	Present	/100 ml	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
33.	<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.					

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


  
 Harish Mendhi  
**TECHNICAL MANAGER**


Note:

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## Water Sample Analysis Report

<b>Report No.</b>	ME-NS0664-130316-WA-INDIABULLS-NASHIK		<b>Date:</b> 16.03.2013
<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>
			Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	09.03.2013	<b>Date of Receipt of Sample</b>	09.03.2013
<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>	10.03.2013	<b>Date of Completion of Analysis</b>	16.03.2013

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.	Turbidity	1.1	N.T.U.	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 2130-B, 2-13
4.	pH	8.13	-	6.5-8.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	8	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Total Dissolved Solids	734	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	5.3	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	300	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	376	mg/L	Max. 200	APHA, 22 <sup>nd</sup> Ed., 2012, 2340 C, 2-44
10.	Calcium (as Ca)	71.4	mg/L	Max. 75	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-B, 3-65
11.	Magnesium (as Mg)	48.1	mg/L	Max. 30	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA, 22 <sup>nd</sup> Ed., 2012, 3500-Al-B, 3-61
13.	Arsenic (as As)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004

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Report No. 0664 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
14.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	Max. 0.003	IS 3025 (Part 2): 2004
15.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3500-Cr-B, 3-69
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	BDL (DL:0.08)	mg/L	Max. 0.3	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
18.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
19.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025 (Part 2): 2004
20.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025 (Part 2): 2004
21.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025 (Part 2): 2004
22.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	0.58	mg/L	Max. 0.5	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-B -C, 4-27
24.	Residual free chlorine	BDL (DL:0.01)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	186	mg/L	Max. 250	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	106	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	0.72	mg/L	Max. 1	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	20.2	mg/L	Max. 45	APHA, 22 <sup>nd</sup> Ed., 2012, 4500-NO <sub>3</sub> , B -4-122
29.	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
30.	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
31.	Mineral Oil	BDL (DL:0.005)	mg/L	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
<b>Microbiological Analysis</b>					
32.	Total Coliforms	Present	/100ml	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
33.	<i>E. Coli</i>	Present	/100ml	Not Detectable	APHA, 22 <sup>nd</sup> Ed., 2012, 9221-D, 9-73
<b>Remark:</b> BDL- Below Detection Limit, DL- Detection Limit.					

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

**TECHNICAL MANAGER**

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## Soil Sample Analysis Report

<b>Report No.</b>	ME-NS0671-130314-SA-INDIABULLS-NASHIK		<b>Date:</b> 14.03.2013
<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> Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
	<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>	07.03.2013	<b>Date of Receipt of Sample</b>	08.03.2013
<b>Date of Start of Analysis</b>	09.03.2013	<b>Date of Completion of Analysis</b>	13.03.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Sandy	-	P. K. Behera Book
2.	Moisture	3.27	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	7.01	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.238	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.40	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	368	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	54	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	215	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	247	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	409	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	26.4	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:

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**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)  
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## Soil Sample Analysis Report

<b>Report No.</b>	ME-NS0670-130314-SA-INDIABULLS-NASHIK		<b>Date:</b> 14.03.2013
<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> Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
	<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>	07.03.2013	<b>Date of Receipt of Sample</b>	08.03.2013
<b>Date of Start of Analysis</b>	09.03.2013	<b>Date of Completion of Analysis</b>	13.03.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Sandy	-	P. K. Behera Book
2.	Moisture	2.01	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	7.22	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	0.346	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.74	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	301	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	31.5	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	354	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	132	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	385	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	31.6	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

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

## Soil Sample Analysis Report

<b>Report No.</b>	ME-NS0672-130314-SA-INDIABULLS-NASHIK	<b>Date:</b> 14.03.2013
<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> Your Work Order No. 3320001083 dt. 18/11/2011 amended on 10.01.2013 Vender Code 2601506
<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>	07.03.2013	<b>Date of Receipt of Sample</b> 08.03.2013
<b>Date of Start of Analysis</b>	09.03.2013	<b>Date of Completion of Analysis</b> 13.03.2013

Sr. No.	Parameter	Result	Unit	Method Reference
1.	Texture	Sandy	-	P. K. Behera Book
2.	Moisture	4.85	%	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	6.98	-	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25 °C)	0.185	mmho/cm	WLII Sec. B5, Page No. 9
5.	Organic Carbon	0.64	%	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	322	kg/ha	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	56.8	kg/ha	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	61	kg/ha	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	156	mg/kg	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	246	mg/kg	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	110	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**



**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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## 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> - 07.03.2013 to 08.03.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near weigh bridge	14.00 h	69
		04.00 h	52
2.	Near IRL Office	14.30 h	58
		04.20 h	50
3.	Near Boiler Area	15.00 h	69
		05.00 h	54
<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

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**TECHNICAL MANAGER**



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