



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.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-NS0180-130914-SA-INDIABUL-NASHIK		<b>Date:</b> 14.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment 1 Dt.02.01.2013
<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> , B(a)P, 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>	06.09.2013 to 07.09.2013	<b>Date of Receipt of Sample</b>	07.09.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Meteorological Data				
Average Wind velocity 1.33 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		91	53	30
<b>Location :</b> Near Weigh Bridge			<b>Duration of Survey :</b> 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	15.2	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	13.4	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	71	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines Vol.-I

Page 1 of 2

*Report No. 0180 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 <sub>2.5</sub>	µg/m <sup>3</sup>	29	60	CPCB Guidelines Vol.-I
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	65	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	µg/m <sup>3</sup>	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m <sup>3</sup>	<0.5	02	APHA Method No.130, Page 359
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	APHA Method No. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	3.1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m <sup>3</sup>	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<b>Remarks:</b> N.D. – Not Detected, 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.

  
 Harish Mendhi  
**TECHNICAL MANAGER**


Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Ambient Air Quality Monitoring Report

<b>Report No. :</b> ME-NS0178-130914-SA-INDIABUL-NASHIK		<b>Date:</b> 14.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment 1 Dt.02.01.2013
<b>Sample Description/Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Near Boiler House	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> , B(a)P, 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>	06.09.2013 to 07.09.2013	<b>Date of Receipt of Sample</b>	09.09.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Meteorological Data				
Average Wind velocity 1.33 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	53	30	22
<b>Location :</b> Near Boiler House			<b>Duration of Survey :</b> 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14.5	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	15.7	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	86	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines Vol.-I

Page 1 of 1

*Report No. 0178 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 $\mu$ m) or PM <sub>2.5</sub>	$\mu$ g/m <sup>3</sup>	39	60	CPCB Guidelines Vol.-I
Ozone (O <sub>3</sub> )	$\mu$ g/m <sup>3</sup>	74.1	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	$\mu$ g/m <sup>3</sup>	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m <sup>3</sup>	<0.5	02	APHA Method No.130, Page 359
Ammonia (NH <sub>3</sub> )	$\mu$ g/m <sup>3</sup>	<20	400	APHA Method No. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	$\mu$ g/m <sup>3</sup>	2.8	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m <sup>3</sup>	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<b>Remarks:</b> N.D. – Not Detected, 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.



Harish Mendhi  
**TECHNICAL MANAGER**



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.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-NS0179-130914-SA-INDIABUL-NASHIK		<b>Date:</b> 14.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment 1 Dt.02.01.2013
<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> , B(a)P, 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>	06.09.2013 to 07.09.2013	<b>Date of Receipt of Sample</b>	09.09.2013
<b>Sampling Procedure</b>	As per method reference		
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Meteorological Data				
Average Wind velocity 1.33 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	91	53	30	22
<b>Location :</b> Near IRL Office			<b>Duration of Survey :</b> 24 hours	
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	11.7	80	IS 5182 ( Part 2): 2001, Reaffirmed 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.2	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	78	100	IS 5182 ( Part 23): 2006 & CPCB Guidelines Vol.-I

Page 1 of 2

*Report No. 0179 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 $\mu$ m) or PM <sub>2.5</sub>	$\mu$ g/m <sup>3</sup>	29	60	CPCB Guidelines Vol.-I
Ozone (O <sub>3</sub> )	$\mu$ g/m <sup>3</sup>	62.1	180	APHA, Method No. 820, Page No. 836
Lead (Pb)	$\mu$ g/m <sup>3</sup>	<0.02	01	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
*Carbon Monoxide (CO)	mg/m <sup>3</sup>	<0.5	02	APHA Method No.130, Page 359
Ammonia (NH <sub>3</sub> )	$\mu$ g/m <sup>3</sup>	<20	400	APHA Method No. 401, Page 511
Benzene (C <sub>6</sub> H <sub>6</sub> )	$\mu$ g/m <sup>3</sup>	2.1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m <sup>3</sup>	<0.5	01	IS 5182 (Part 12): 2004
Arsenic (As)	ng/m <sup>3</sup>	<0.3	06	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Nickel (Ni)	ng/m <sup>3</sup>	<3	20	US EPA Method: EPA/ 625/R-96/0109/IO-3.1, 3.2
Mercury	ng/m <sup>3</sup>	N.D.	-	APHA, Method No. 318, Page No. 492
<b>Remarks:</b> N.D. – Not Detected, 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.

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.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0177-130914-WA-INDIABULLS-NASHIK		<b>Date:</b> 14.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.02.01.2013
<b>Sample Description/Type</b>	Drinking Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	IRL Canteen Cooler 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>	07.09.2013	<b>Date of Receipt of Sample</b>	08.09.2013
<b>Sampling Procedure</b>	IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012,1060 B, 1-39, 9060 A, 9-35		
<b>Date of Start of Analysis</b>	08.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen Unit	1	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	N.T.U.	<0.1	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	7.2	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	<5	-	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> - B, 4-92
6.	Biochemical Oxygen Demand (3 days 27 <sup>o</sup> C)	mg/L	<1	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	<4	-	APHA, 22 <sup>nd</sup> Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	<0.5	-	APHA, 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	28	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.2	-	IS 3025 (Part 38): 1989, RA 2009

*Report No. 0177 cont...*

Sr. No.	Parameter	Result	Unit	Acceptable Limit as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	mg/L	20	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	16	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	4.81	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	0.97	Max. 30	APHA 22 <sup>nd</sup> 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 <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> 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 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	<0.08	-	APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18
22.	Lead (as Pb)	mg/L	<0.008	Max. 0.01	IS 3025 (Part 2): 2004
23.	Manganese (as Mn)	mg/L	<0.02	Max. 0.1	IS 3025 (Part 2): 2004
24.	Mercury (as Hg)	mg/L	<0.0008	Max. 0.001	IS 3025 (Part 2): 2004
25.	Selenium (as Se)	mg/L	<0.005	Max. 0.01	IS 3025 (Part 2): 2004
26.	Zinc (as Zn)	mg/L	<0.05	Max. 5	IS 3025 (Part 2): 2004
27.	Nickel (as Ni)	mg/L	<0.01	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	mg/L	<0.2	-	IS 3025 (Part 2): 2004
29.	Sodium (as Na)	mg/L	1.1	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	mg/L	0.1	-	IS 3025 (Part 45): 1993, Reaffirmed 2009



*Report No. 0177 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	3.5	Max. 250	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
32.	Sulphate (as SO <sub>4</sub> )	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	<0.05	Max. 1	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as PO <sub>4</sub> )	mg/L	<0.03	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500 P, E, 4-155
35.	Nitrate (as NO <sub>3</sub> )	mg/L	<0.5	Max. 45	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E-4-125
36.	Dissolved Silica (as SiO <sub>2</sub> )	mg/L	1.57	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-SiO <sub>2</sub> , D, 4-169
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	mg/L	<0.08	-	APHA 22 <sup>nd</sup> Ed. 2012, 4500-S <sup>2</sup> , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	1.76	-	APHA, 22 <sup>nd</sup> Ed. 2012, 4500-CO <sub>2</sub> -C, 4-31
39.	Permanganate Value at 25 <sup>o</sup> C	mg/L	<0.1	-	IS 3025 (Part 63): 2007
<b>Microbiological Analysis</b>					
40.	Total Coliforms	MPN/100mL	Absent	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
41.	E. coli	MPN/100mL	Present	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**



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.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0176-130913-SA-INDIABULLS-NASHIK		<b>Date:</b> 13.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.02.01.2013
<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>	07.09.2013	<b>Date of Receipt of Sample</b>	08.09.2013
<b>Sampling Procedure</b>	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39		
<b>Date of Start of Analysis</b>	08.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	0.1	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	7.7	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1080	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.7	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	mg/L	320	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	770	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	148	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	97.2	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> 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

*Report No. 0176 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> 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 <sup>nd</sup> 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	0.06	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	5.36	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-C, 4-27
24.	Residual free chlorine	mg/L	<0.01	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	203	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	169	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	0.77	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	14.9	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	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)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> 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
<b>Microbiological Analysis</b>					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
33.	<i>E. coli</i>	/100 mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76
<b>Remark:</b>					

-----END-----

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).
- This report is not to be reproduced except in full, without written approval of the laboratory.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Water Sample Analysis Report

<b>Report No. :</b> ME-NS0174-130914-SA-INDIABULLS-NASHIK		<b>Date:</b> 14.09.2013	
<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. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.02.01.2013
<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
<b>Date of Sampling</b>	07.09.2013	<b>Date of Receipt of Sample</b>	08.09.2013
<b>Sampling Procedure</b>	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39		
<b>Date of Start of Analysis</b>	08.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen Units	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	0.2	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	8.2	6.5-8.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -B, 4-92
5.	Suspended Solids	mg/L	<5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	720	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.6	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO <sub>3</sub> )	mg/L	226	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	340	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	56.1	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	48.6	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> 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

*Report No. 0174 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> 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 <sup>nd</sup> 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	0.56	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.01	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	243	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	146	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
27.	Fluoride (as F)	mg/L	1.20	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	15.6	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , B -4-122
29.	Cyanide (as CN)	mg/L	<0.001	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)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> Ed. 2012, 5530-B & C, 5-44 & 5-47
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

**Remark:**

-----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.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Water Sample Analysis Report

<b>Report No. : ME-NS0175-130914-SA-INDIABULLS-NASHIK</b>		<b>Date: 14.09.2013</b>	
<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. 3520000054 Dt. 18.11.2011 Amendment: 1 Dt.02.01.2013
<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. Sterilised Glass Bottle
<b>Date of Sampling</b>	07.09.2013	<b>Date of Receipt of Sample</b>	07.09.2013
<b>Sampling Procedure</b>	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39, 9060 A, 9-35		
<b>Date of Start of Analysis</b>	07.09.2013	<b>Date of Completion of Analysis</b>	13.09.2013

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	Hazen	1	Max. 5	APHA 22 <sup>nd</sup> Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	2.1	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13
4.	pH	-	8.2	6.5-8.5	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B,4-92
5.	Suspended Solids	mg/L	13	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	550	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 <sub>3</sub> )	mg/L	232	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	306	Max. 200	APHA 22 <sup>nd</sup> Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	60.1	Max. 75	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	37.9	Max. 30	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 <sup>nd</sup> 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

*Report No. 0175 cont...*

Sr. No.	Parameter	Unit	Result	Acceptable Limit as per IS 10500:2012	Method Reference
15.	Chromium (as Cr <sup>+6</sup> )	mg/L	<0.02	-	APHA 22 <sup>nd</sup> 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	0.16	Max. 0.3	APHA 22 <sup>nd</sup> 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	0.07	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	1.32	Max. 0.5	APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25
24.	Residual free chlorine	mg/L	<0.01	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2009, Ed. 2.1
25.	Chloride (as Cl)	mg/L	129	Max. 250	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl, B, 4-72
26.	Sulphate (as SO <sub>4</sub> )	mg/L	69.5	Max. 200	IS 3025 (Part 24): 1986, RA 2009
27.	Fluoride (as F)	mg/L	0.80	Max. 1	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87
28.	Nitrate (as NO <sub>3</sub> )	mg/L	16.1	Max. 45	APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E -4-125
29.	Cyanide (as CN)	mg/L	<0.001	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)	mg/L	<0.001	Max. 0.001	APHA 22 <sup>nd</sup> 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
<b>Microbiological Analysis</b>					
32.	Total Coliforms	/100 mL	Present	Not Detectable	APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73
33.	<i>E .coli</i>	/100 mL	Present	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:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## 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> – 06.09.2013 to 07.09.2013	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	13.00 h	69
		03.00 h	54
2.	Near IRL Office	13.40 h	67
		03.42 h	52
3.	Near Boiler Area	14.10 h	70
		04.15 h	56
<b>Noise Level Standards</b>			
Area Code	Area Type	Limits in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-----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.





# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Soil Sample Analysis Report

<b>Report No. :</b> ME-NS0181-130912-SA-INDIABULLS-NASHIK		<b>Date:</b> 12.09.2013	
<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. 3520000054 Dt.18.11.2011 Amendment 1 Dt.02.01.2013
<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>	06.09.2013	<b>Date of Receipt of Sample</b>	09.09.2013
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	11.09.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	5.2	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	8.22	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.174	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	2.8	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	331	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	38	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	237	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	149	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	544	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	51.2	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.

-----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



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Soil Sample Analysis Report

<b>Report No. : ME-NS0182-130912-SA-INDIABULLS-NASHIK</b>		<b>Date: 12.09.2013</b>	
<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. 3520000054 Dt.18.11.2011 Amendment 1 Dt.02.01.2013	
<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>	06.09.2013	<b>Date of Receipt of Sample</b>	09.09.2013
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	11.09.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	3.54	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	8.59	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mS/cm	0.154	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	2.64	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	326	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	41.5	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	167	FAO Sec. III .8-1, Page No. 115
9.	Available Magnesium	mg/kg	189	FAO Sec. III .8-1, Page No. 115
10.	Available Calcium	mg/kg	604	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	82.6	FAO Sec. III .7-2, Page No. 104

### Remarks:

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

**WLII-** Wildlife Institute of India.

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

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

**TECHNICAL MANAGER**



### Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Page 1 of 1



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

## Soil Sample Analysis Report

<b>Report No. :</b> ME-NS0183-130912-SA-INDIABULLS-NASHIK		<b>Date:</b> 12.09.2013	
<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. 3520000054 Dt.18.11.2011 Amendment 1 Dt.02.01.2013
<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>	06.09.2013	<b>Date of Receipt of Sample</b>	09.09.2013
<b>Date of Start of Analysis</b>	09.09.2013	<b>Date of Completion of Analysis</b>	12.09.2013

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	P. K. Behera Book
2.	Moisture	%	6.58	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension )	-	8.95	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	%	2.4	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	289	FAO Sec. III .11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	34.5	FAO Sec. III .12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	207	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	523	FAO Sec. III .8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	80.7	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:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- 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**

(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)**