



# Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.  
Phone : +91-0712-2612162, 07109-326999, Tele Fax - 0712 - 2612212, Email : [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001311/11.04.06/SA/Indiabulls/Nashik</b>		<b>Date:</b> 06/04/2011
<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. 3320000384 dt 28.10.2010
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Tap water	<b>Sample Quantity/Packing</b>	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	22/03/2011	<b>Date of Receipt of Sample</b>	23/03/2011
<b>Sampling Procedure</b>	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
<b>Date of Start of Analysis</b>	24/03/2011	<b>Date of Completion of Analysis</b>	06/04/2011

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	10	Hazen Units	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2120-B, 2-2
2.	Odour	Objectionable	-	Unobjectionable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	3.7	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
4.	pH	8.19	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
5.	Suspended Solids	5	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand(3 days at 27 °C)	8	mg/L	-	IS 3025 (Part 44): 1993, Reaffirmed 2009, Amds.1
7.	Chemical Oxygen Demand	29	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5220-B, 5-15
8.	Oil and Grease	1	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5520-B, 5-37
9.	Total Dissolved Solids	110	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006
10.	Dissolved oxygen	6	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	N.D.	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1



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Report No. ME/NS/001311/11.04.09/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	95.3	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	87.4	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
14.	Calcium (as Ca)	18.7	mg/L	Max. 200	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65
15.	Magnesium (as Mg)	9.91	mg/L	Max. 100	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
16.	Arsenic (as As)	<0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Cadmium (as Cd)	<0.005	mg/L	Max. 0.01	IS 3025(Part 2): 2004
18.	Chromium (as Cr)	0.047	mg/L	Max. 0.05	IS 3025(Part 2): 2004
19.	Copper (as Cu)	<0.03	mg/L	Max. 1.5	IS 3025(Part 2): 2004
20.	Iron (as Fe - dissolved)	0.397	mg/L	Max 0.3	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
21.	Iron (as Fe - suspended)	N.D.	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
22.	Lead (as Pb)	<0.008	mg/L	Max. 0.05	IS 3025(Part 2): 2004
23.	Manganese (as Mn)	0.016	mg/L	Max. 0.3	IS 3025(Part 2): 2004
24.	Mercury (as Hg)	N.D.	mg/L	Max. 0.001	IS 3025(Part 2): 2004
25.	Selenium (as Se)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
26.	Zinc (as Zn)	0.078	mg/L	Max. 5	IS 3025(Part 2): 2004
27.	Nickel (as Ni)	<0.002	mg/L	-	IS 3025(Part 2): 2004



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Report No. ME/NS/001311/11.04.09/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Barium	0.104	mg/L	-	IS 3025(Part 2): 2004
29.	Sodium (as Na)	9.9	mg/L	-	IS 3025 (Part 45):1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	0.9	mg/L	-	IS 3025( Part 45): 1993, Reaffirmed 2009
31.	Chloride (as Cl)	1.47	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
32.	Sulphate (as SO <sub>4</sub> )	5.77	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
33.	Fluoride (as F)	N.D.	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
34.	Phosphate (as PO <sub>4</sub> )	<0.03	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500 P, E, 4-153
35.	Nitrate (as NO <sub>3</sub> )	2.35	mg/L	Max. 45	APHA,21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
36.	Dissolved Silica (as SiO <sub>2</sub> )	0.58	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500-SiO <sub>2</sub> , D, 4-167
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	N.D.	mg/L	-	APHA,21 <sup>st</sup> Ed.,2005,4500 -S <sup>2</sup> , C-4-173, F-4-176
38.	Carbon Dioxide	6.03	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500- CO <sub>2</sub> C,4-33
39.	KMnO <sub>4</sub> value at 25°C	0.012	mg/L	-	IS 1070:1992, R Reaffirmed 2003
<b>Microbiological Analysis</b>					
40.	Total Coliforms	220	/100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 55
41.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

-----End-----

for Mahabal Enviro Engineers Pvt. Ltd.

  
Harish Mendhi  
Technical Manager  
AUTHORISED SIGNATORY



Note :

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001312/11.04.06/SA/Indiabulls/Nashik</b>		<b>Date:</b> 06/04/2011
<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. 3320000384 dt 28.10.2010
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Aquagard Water Outlet	<b>Sample Quantity/Packing</b>	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	22/03/2011	<b>Date of Receipt of Sample</b>	23/03/2011
<b>Sampling Procedure</b>	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
<b>Date of Start of Analysis</b>	24/03/2011	<b>Date of Completion of Analysis</b>	06/04/2011

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	10	Hazen Units	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2120-B, 2-2
2.	Odour	Unobjectionable	-	Unobjectionable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	1.7	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
4.	pH	6.68	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
5.	Suspended Solids	2	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand(3 days at 27 °C)	9	mg/L	-	IS 3025 (Part 44): 1993, Reaffirmed 2009, Amds.1
7.	Chemical Oxygen Demand	30	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5220-B, 5-15
8.	Oil and Grease	1	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5520-B, 5-37
9.	Total Dissolved Solids	20	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006
10.	Dissolved oxygen	5.8	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	N.D.	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1



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Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	5.77	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	3.88	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
14.	Calcium (as Ca)	0.77	mg/L	Max. 200	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65
15.	Magnesium (as Mg)	0.47	mg/L	Max. 100	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
16.	Arsenic (as As)	<0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Cadmium (as Cd)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
18.	Chromium (as Cr)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
19.	Copper (as Cu)	N.D.	mg/L	Max. 1.5	IS 3025(Part 2): 2004
20.	Iron (as Fe - dissolved)	0.20	mg/L	Max 0.3	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
21.	Iron (as Fe - suspended)	N.D.	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
22.	Lead (as Pb)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
23.	Manganese (as Mn)	N.D.	mg/L	Max. 0.3	IS 3025(Part 2): 2004
24.	Mercury (as Hg)	N.D.	mg/L	Max. 0.001	IS 3025(Part 2): 2004
25.	Selenium (as Se)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
26.	Zinc (as Zn)	N.D.	mg/L	Max. 5	IS 3025(Part 2): 2004
27.	Nickel (as Ni)	N.D.	mg/L	-	IS 3025(Part 2): 2004



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Report No. ME/NS/001312/11.04.09/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Barium	N.D.	mg/L	-	IS 3025(Part 2): 2004
29.	Sodium (as Na)	4.8	mg/L	-	IS 3025 (Part 45):1993, Reaffirmed 2009, Amds.1
30.	Potassium (as K)	0.1	mg/L	-	IS 3025( Part 45): 1993, Reaffirmed 2009
31.	Chloride (as Cl)	7.34	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
32.	Sulphate (as SO <sub>4</sub> )	2.88	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
33.	Fluoride (as F)	N.D.	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
34.	Phosphate (as PO <sub>4</sub> )	N.D.	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500 P, E, 4-153
35.	Nitrate (as NO <sub>3</sub> )	<1	mg/L	Max. 45	APHA, 21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
36.	Dissolved Silica (as SiO <sub>2</sub> )	0.04	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500-SiO <sub>2</sub> , D, 4-167
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	N.D.	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500 - S <sup>2</sup> , C-4-173, F-4-176
38.	Carbon Dioxide	2.59	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500- CO <sub>2</sub> , C,4-33
39.	KMnO <sub>4</sub> value at 25°C	N.D.	mg/L	-	IS 1070:1992, R Reaffirmed 2003
<b>Microbiological Analysis</b>					
40.	Total Coliforms	<1.8	/100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-B, 9-49
41.	<i>E. coli</i>	Absent	/ 100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

-----End-----

for **Mahabal Enviro Engineers Pvt. Ltd.**

  
Harish Mendhi

Technical Manager

**AUTHORISED SIGNATORY**



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## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001308/11.04.06/SA/Indiabulls/Nashik</b>		<b>Date:</b> 06/04/2011
<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. 3320000384 dt 28.10.2010
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Gulavanch Gat No. 806	<b>Sample Quantity/Packing</b>	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	22/03/2011	<b>Date of Receipt of Sample</b>	23/03/2011
<b>Sampling Procedure</b>	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
<b>Date of Start of Analysis</b>	24/03/2011	<b>Date of Completion of Analysis</b>	06/04/2011

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	5	Hazen Units	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2120-B, 2-2
2.	Odour	Unobjectionable	-	Unobjectionable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Agreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	1.5	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.8	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
6.	Suspended Solids	4	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1484	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	2	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO <sub>3</sub> )	296	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	686	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	153	mg/L	Max. 200	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



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Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	90	mg/L	Max. 100	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	0.15	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
14.	Arsenic (as As)	<0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	<0.005	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	0.044	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	N.D.	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	N.D.	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	0.021	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	N.D.	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	0.975	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.482	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.1	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	367	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	284	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2003



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Report No. ME/NS/001308/11.04.06/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.72	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	40.3	mg/L	Max. 45	APHA, 21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
30.	Cyanide (as CN)	N.D.	mg/L	Max. 0.05	APHA, 21 <sup>st</sup> Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	N.D.	mg/L	Max. 0.001	APHA, 21 <sup>st</sup> Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
<b>Microbiological Analysis</b>					
33.	Total Coliforms	350	MPN Index /100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 55
34.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

-----End-----  
for **Mahabal Enviro Engineers Pvt. Ltd.**

Harish Mendhi  
**Technical Manager**  
**AUTHORISED SIGNATORY**



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Note :

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Engineer, Consultant , Environmental Monitoring Laboratory & Contractor

Plot No. 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist - Nagpur - 441 111.  
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## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001309/11.04.06/SA/Indiabulls/Nashik</b>		<b>Date:</b> 06/04/2011
<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. 3320000384 dt 28.10.2010
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Kedarpur	<b>Sample Quantity/Packing</b>	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	22/03/2011	<b>Date of Receipt of Sample</b>	23/03/2011
<b>Sampling Procedure</b>	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
<b>Date of Start of Analysis</b>	24/03/2011	<b>Date of Completion of Analysis</b>	06/04/2011

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	4	Hazen Units	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2120-B, 2-2
2.	Odour	Unobjectionable	-	Unobjectionable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Agreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	2.5	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.8	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
6.	Suspended Solids	2	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	832	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	3	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO <sub>3</sub> )	226	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	478	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	115	mg/L	Max. 200	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



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Report No. ME/NS/001309/11.04.06/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	72	mg/L	Max. 100	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	<0.020	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
14.	Arsenic (as As)	<0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	<0.008	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	<0.02	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	N.D.	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	N.D.	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	N.D.	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	N.D.	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	<0.05	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.6	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.1	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	267	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	115	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2003



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Report No. ME/NS/001309/11.04.06/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	<0.02	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	33.5	mg/L	Max. 45	APHA, 21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
30.	Cyanide (as CN)	<0.001	mg/L	Max. 0.05	APHA, 21 <sup>st</sup> Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	N.D.	mg/L	Max. 0.001	APHA, 21 <sup>st</sup> Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
<b>Microbiological Analysis</b>					
33.	Total Coliforms	880	MPN Index /100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 55
34.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

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for **Mahabal Enviro Engineers Pvt. Ltd.**

Harish Mendhi  
**Technical Manager**  
**AUTHORISED SIGNATORY**



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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## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001310/11.04.06/SA/Indiabulls/Nashik</b>		<b>Date:</b> 06/04/2011
<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. 3320000384 dt 28.10.2010
<b>Sample Description /Type</b>	Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Musalgaon	<b>Sample Quantity/Packing</b>	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
<b>Date of Sampling</b>	22/03/2011	<b>Date of Receipt of Sample</b>	23/03/2011
<b>Sampling Procedure</b>	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
<b>Date of Start of Analysis</b>	24/03/2011	<b>Date of Completion of Analysis</b>	08/04/2011

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	5	Hazen Units	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2120-B, 2-2
2.	Odour	Unobjectionable	-	Unobjectionable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Taste	Agreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	1.3	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.7	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
6.	Suspended Solids	5	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	828	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	4	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO <sub>3</sub> )	312	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	692	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	134	mg/L	Max. 200	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



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Report No. ME/NS/001310/11.04.06/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	83.3	mg/L	Max. 100	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	0.109	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
14.	Arsenic (as As)	<0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	0.007	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	<0.02	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	N.D.	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.064	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	<0.008	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	<0.02	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	N.D.	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	<0.05	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.9	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.1	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	315	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	144	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2003



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Report No. ME/NS/001310/11.04.06/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.63	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	36.6	mg/L	Max. 45	APHA, 21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
30.	Cyanide (as CN)	<0.001	mg/L	Max. 0.05	APHA, 21 <sup>st</sup> Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	N.D.	mg/L	Max. 0.001	APHA, 21 <sup>st</sup> Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
<b>Microbiological Analysis</b>					
33.	Total Coliforms	280	MPN Index /100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 55
34.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

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for Mahabal Enviro Engineers Pvt. Ltd.



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