



## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001905/12.02.21/SA/Indiabulls/Nashik</b>		<b>Date:</b> 21/02/2012
<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
<b>Sample Description /Type</b>	Ground 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>	07/02/2012	<b>Date of Receipt of Sample</b>	07/02/2012
<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>	07/02/2012	<b>Date of Completion of Analysis</b>	20/02/2012

<b>Sr. No.</b>	<b>Parameters</b>	<b>Results</b>	<b>Units</b>	<b>Desirable Limit as per IS 10500: 1991</b>	<b>Method Reference</b>
<b>Physico-Chemical Analysis</b>					
1.	Colour	1	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	2.2	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.75	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
6.	Suspended Solids	9	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	804	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved Oxygen	6	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	162	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	447	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	95.2	mg/L	Max. 75	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



**Report No. ME/NS/001905/12.02.21/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	50.9	mg/L	Max. 30	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	N.D.	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	0.05	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)	0.68	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)	0.08	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)	<0.005	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	0.46	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.44	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	N.D.	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	211	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	131	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009



# Mahabal Enviro Engineers Pvt. Ltd.

Plot No. 13/14, Opp. Patel Petrol Pump, Chinndwara Road, Koradi, Dist. Nagpur – 411 111

**Report No. ME/NS/001905/12.02.21/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.64	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F <sup>-</sup> , D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	108	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	49	/100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 9-55
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 :**

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.



## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001906/12.02.21/SA/Indiabulls/Nashik</b>		<b>Date:</b> 21/02/2012
<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
<b>Sample Description /Type</b>	Ground 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>	07/02/2012	<b>Date of Receipt of Sample</b>	07/02/2012
<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>	07/02/2012	<b>Date of Completion of Analysis</b>	20/02/2012

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	1	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	0.7	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.67	-	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	1092	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved oxygen	6.3	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	203	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	665	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	137	mg/L	Max. 75	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



**Report No. ME/NS/001906/12.02.21/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	78.5	mg/L	Max. 30	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	N.D.	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	N.D.	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	0.05	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)	0.79	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)	0.11	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)	0.11	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.69	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	N.D.	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	262	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	159	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009



# Mahabal Enviro Engineers Pvt. Ltd.

Plot No. 13/14, Opp. Patel Petrol Pump, Chinndwara Road, Koradi, Dist. Nagpur – 411 111

**Report No. ME/NS/001906/12.02.21/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.68	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F <sup>-</sup> , D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	154	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

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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## Water Analysis Report

<b>Report No.</b>	<b>ME/NS/001907/12.02.21/SA/Indiabulls/Nashik</b>		<b>Date:</b> 21/02/2012
<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
<b>Sample Description /Type</b>	Ground 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>	07/02/2012	<b>Date of Receipt of Sample</b>	07/02/2012
<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>	07/02/2012	<b>Date of Completion of Analysis</b>	20/02/2012

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500:1991	Method Reference
<b>Physico-Chemical Analysis</b>					
1.	Colour	2	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	0.01	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
5.	pH	7.61	-	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	1160	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved oxygen	7	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO <sub>3</sub> )	373	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO <sub>3</sub> )	751	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	137	mg/L	Max. 75	APHA, 21 <sup>st</sup> Ed., 2005, 3500-B, 3-65



**Report No. ME/NS/001907/12.02.03/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	99.4	mg/L	Max. 30	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	N.D.	mg/L	Max. 0.2	APHA, 21 <sup>st</sup> Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	0.19	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	N.D.	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr <sup>+6</sup> )	0.05	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)	0.82	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)	0.15	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)	8.8	mg/L	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	N.D.	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	137	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO <sub>4</sub> )	362	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009





**Report No. ME/NS/001907/12.02.21/SA/Indiabulls/Nashik Cont...**

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.53	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F <sup>-</sup> , D, 4-85
29.	Nitrate (as NO <sub>3</sub> )	45.5	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	920	/100 ml	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-D, 9-55
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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