



Water Analysis Report

Report No.	ME/NS/000065/12.05.20/SA/Indiabulls/Nashik		Date: 20/05/2012
Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320001083 dt 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Gulavanch	Sample Quantity/Packing	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
Date of Sampling	12/05/2012	Date of Receipt of Sample	12/05/2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 st Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
Date of Start of Analysis	12/05/2012	Date of Completion of Analysis	19/05/2012

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	5	Hazen Units	Max. 5	APHA, 21 st 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	4.7	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.98	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	32	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1016	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved Oxygen	5.5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	285	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	475	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	57.3	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-B, 3-65



Report No. ME/NS/000065/12.05.20/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	80.7	mg/L	Max. 30	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.12	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.87	mg/L	Max. 5	APHA, 21 st Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	246	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	51	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/000065/12.05.20/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	1.01	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F ⁻ , D, 4-85
29.	Nitrate (as NO ₃)	183	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 21 st Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 21 st Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	0.2	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1

BDL : Below Detection Limit.
DL : Detection Limit.

-----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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Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ) , Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320001083 dt 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
Date of Sampling	12/05/2012	Date of Receipt of Sample	12/05/2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 st Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
Date of Start of Analysis	12/05/2012	Date of Completion of Analysis	19/05/2012

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	2	Hazen Units	Max. 5	APHA, 21 st 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	0.2	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.66	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	7	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1044	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved oxygen	5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	158	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	722	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	151	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-B, 3-65



Report No. ME/NS/000066/12.05.20/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	87.2	mg/L	Max. 30	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	BDL (DL:0.01)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.21	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	BDL (DL:0.005)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.02)	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	0.1	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.47	mg/L	Max. 5	APHA, 21 st Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min. 0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	261	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	207	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009



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Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.52	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	182	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 21 st Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.1)	mg/L	Max. 0.001	APHA, 21 st Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	0.2	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	17	/100 ml	Absent	APHA, 21 st Ed., 2005, 9221-D, 9-55
34.	<i>E. coli</i>	Absent	/100 ml	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
BDL : Below Detection Limit. DL : Detection Limit.					

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


Harish Mendhi
Technical Manager
AUTHORISED SIGNATORY



Note :

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Name and Address of Customer	Indiabulls Realtech Ltd. (SEZ Co-Developer) Indiabulls Industrial Infrastructure Ltd.(Multiproduct SEZ), Village – Musalgaon & Gulvanch, Tal- Sinnar, Nashik.		Order Reference Your Work Order No. 3320001083 dt 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	10 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle
Date of Sampling	12/05/2012	Date of Receipt of Sample	12/05/2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 1998 & APHA, 21 st Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
Date of Start of Analysis	12/05/2012	Date of Completion of Analysis	19/05/2012

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500:1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	2	Hazen Units	Max. 5	APHA, 21 st 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	0.2	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.41	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	5	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1624	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved oxygen	4.4	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	401	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	1159	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	206	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-B, 3-65



Report No. ME/NS/000067/12.05.20/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	124	mg/L	Max. 30	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-Al-B, 3-28
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
15.	Cadmium (as Cd)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
16.	Chromium (as Cr ⁺⁶)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	1.6	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.13	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	BDL (DL:0.008)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	0.03	mg/L	Max. 0.3	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025(Part 2): 2004
22.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
23.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	15.7	mg/L	Max. 5	APHA, 21 st Ed., 2005, 4500-B-C, 4-23
25.	Residual free chlorine	BDL (DL:0.1)	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	232	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	707	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009



Report No. ME/NS/000067/12.05.20/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.81	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F ⁻ , D, 4-85
29.	Nitrate (as NO ₃)	48.8	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	BDL (DL:0.001)	mg/L	Max. 0.05	APHA, 21 st Ed., 2005, 4500-CN, C & E, 4-39 & 4-41
31.	Phenolic Compounds (as C ₆ H ₅ OH)	BDL (DL:0.001)	mg/L	Max. 0.001	APHA, 21 st Ed., 2005, 5530- B & C, 5-44 & 5-45
32.	Mineral Oil	0.4	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	240	/100 ml	Absent	APHA, 21 st Ed., 2005, 9221-D, 9-55
34.	<i>E. coli</i>	Absent	/100 ml	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
BDL : Below Detection Limit. DL : Detection Limit.					

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

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Technical Manager
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