



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

Water Sample Analysis Report

Report No.	ME-NS0126-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
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 Date : 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	5 L x 1 No. Plastic Can 1 L x 1 No. Glass Bottle
Date of Sampling	14.07.2012	Date of Receipt of Sample	15.07.2012
Sampling Procedure	IS 3025, Part 1, 1987, Reaffirmed 2003 & APHA, 21 st Ed., 2005, 1060 B, 1-29		
Date of Start of Analysis	14.07.2012	Date of Completion of Analysis	19.07.2012

Sr. No.	Parameter	Result	Unit	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	2.5	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.90	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	8	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1116	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
8.	Dissolved Oxygen	6.2	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	266	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	410	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	58.4	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-Ca-B, 3-65
12.	Magnesium (as Mg)	64.2	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. 0.03	APHA, 21 st Ed., 2005, 3500-Al-B, 3-58



Water Sample Analysis Report

Report No.	ME-NS0124-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
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 Date: 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	5 L x 1 No. Plastic Can 1 L x 1 No. Glass Bottle 250 mL x 1 No. Sterile Glass Bottle
Date of Sampling	14.07.2012	Date of Receipt of Sample	15.07.2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 2003 & APHA, 21 st Ed., 2005, 1060 B, 1-29		
Date of Start of Analysis	14.07.2012	Date of Completion of Analysis	18.07.2012

Sr. No.	Parameter	Result	Unit	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	Disagreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	10.1	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.88	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	30	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1052	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 ₃)	266	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	419	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	60.2	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-Ca-B, 3-65



Report No.0124 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	65.3	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. 0.03	APHA, 21 st Ed., 2005, 3500-Al-B, 3-58
14.	Arsenic (as As)	BDL (DL: 0.01)	mg/L	Max. 0.01	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	APHA 21 st Ed., 2005, 3500-Cr, B, 3-67
17.	Copper (as Cu)	BDL (DL: 0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
18.	Iron (as Fe)	BDL (DL: 0.06)	mg/L	Max. 0.3	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. 0.1	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)	0.68	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-B-B, 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)	245	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	239	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.96	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	192	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



Report No. 0124 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
32.	Mineral Oil	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	170	MPN /100mL	Max. 10	APHA, 21 st Ed., 2005, 9221-B, 9-49
34.	E. coli	Present	MPN /100mL	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
Remark: BDL- Below Detection Limit, DL- Detection Limit, N.D. – Not Detected					

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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.



Report No. 0126 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
14.	Arsenic (as As)	0.01	mg/L	Max. 0.01	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	APHA 21 st Ed., 2005, 3500-Cr,B,3-67
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	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. 0.1	IS 3025(Part 2): 2004
21.	Mercury (as Hg)	BDL (DL:0.008)	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 (0.05)	mg/L	Max. 5	IS 3025(Part 2): 2004
24.	Boron (as B)	0.79	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-B-B, 4-23
25.	Residual free chlorine	BDL (DL:0.02)	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	240	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	251	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
28.	Fluoride (as F)	0.97	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	181	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	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Remark: BDL- Below Detection Limit, DL- Detection Limit , N.D.- Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
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TECHNICAL MANAGER



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Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111

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Water Sample Analysis Report

Report No.	ME-NS0125-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
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 Date: 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	5 L x 1 No. Plastic Can 1 L x 1 No.Glass Bottle 250 mL x 1 No. Sterile Glass Bottle
Date of Sampling	14.07.2012	Date of Receipt of Sample	15.07.2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 2003 & APHA, 21 st Ed., 2005, 1060 B		
Date of Start of Analysis	14.07.2012	Date of Completion of Analysis	19.07.2012

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	3	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	Disagreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	2.7	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.76	-	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	756	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 ₃)	139	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	428	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	87.5	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-Ca-B, 3-65

Page 1 of 3

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



Report No.0125 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	50.9	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. 0.03	APHA, 21 st Ed., 2005, 3500-Al-B, 3-58
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.01	APHA 21 st Ed., 2005, 3114-C, 3-37
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	APHA 21 st Ed., 2005, 3500-Cr, B, 3-67
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	IS 3025(Part 2): 2004
19.	Lead (as Pb)	0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	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)	0.36	mg/L	Max. 5	APHA, 21 st Ed., 2005, 4500-B-B, 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)	220	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	121	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.5	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	136	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	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1



Report No. 0125 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Microbiological Analysis					
33.	Total Coliforms	1.4×10^4	MPN/100mL	Max. 10	APHA, 21st Ed., 2005, 9221-D, 9-55
34.	E. Coli	Present	MPN/100mL	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
Remark: BDL- Below Detection Limit, DL- Detection Limit, N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


Harish Mendhi

TECHNICAL MANAGER



Note:

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Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur – 441111

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Water Sample Analysis Report

Report No.	ME-NS0124-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
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 Date: 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	5 L x 1 No. Plastic Can 1 L x 1 No. Glass Bottle 250 mL x 1 No. Sterile Glass Bottle
Date of Sampling	14.07.2012	Date of Receipt of Sample	15.07.2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 2003 & APHA, 21 st Ed., 2005, 1060 B, 1-29		
Date of Start of Analysis	14.07.2012	Date of Completion of Analysis	18.07.2012

Sr. No.	Parameter	Result	Unit	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	Disagreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	10.1	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.88	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ -B, 4-90
6.	Suspended Solids	30	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1052	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 ₃)	266	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	419	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	60.2	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-Ca-B, 3-65

Page 1 of 3

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



Report No.0124 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	65.3	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. 0.03	APHA, 21 st Ed., 2005, 3500-Al-B, 3-58
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.01	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	APHA 21 st Ed.,2005, 3500-Cr,B,3-67
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	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. 0.1	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)	0.68	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-B-B, 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)	245	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	239	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
28.	Fluoride (as F)	0.96	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	192	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



Report No. 0124 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
32.	Mineral Oil	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	170	MPN /100mL	Max. 10	APHA, 21 st Ed., 2005, 9221-B, 9-49
34.	E. coli	Present	MPN /100mL	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
Remark: BDL- Below Detection Limit, DL- Detection Limit, N.D. – Not Detected					

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

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Mahabal Enviro Engineers Pvt. Ltd.

Plot 13/14, Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur – 441111

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Water Sample Analysis Report

Report No.	ME-NS0125-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
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 Date: 18.11.2011
Sample Description /Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	5 L x 1 No. Plastic Can 1 L x 1 No.Glass Bottle 250 mL x 1 No. Sterile Glass Bottle
Date of Sampling	14.07.2012	Date of Receipt of Sample	15.07.2012
Sampling Procedure	IS 1622, 1981, Reaffirmed 2003 & IS 3025, Part 1, 1987, Reaffirmed 2003 & APHA, 21 st Ed., 2005, 1060 B		
Date of Start of Analysis	14.07.2012	Date of Completion of Analysis	19.07.2012

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	3	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	Disagreeable	-	Agreeable	IS 3025 (Part 8): 1984, Reaffirmed 2006
4.	Turbidity	2.7	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.76	-	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	756	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 ₃)	139	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	428	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	87.5	mg/L	Max. 75	APHA, 21 st Ed., 2005, 3500-Ca-B, 3-65

Page 1 of 3

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



Report No.0125 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
12.	Magnesium (as Mg)	50.9	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. 0.03	APHA, 21 st Ed., 2005, 3500-Al-B, 3-58
14.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.01	APHA 21 st Ed., 2005, 3114-C, 3-37
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	APHA 21 st Ed., 2005, 3500-Cr, B, 3-67
17.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
18.	Iron (as Fe)	BDL (DL:0.06)	mg/L	Max. 0.3	IS 3025(Part 2): 2004
19.	Lead (as Pb)	0.01	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	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)	0.36	mg/L	Max. 5	APHA, 21 st Ed., 2005, 4500-B-B, 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)	220	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	121	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.5	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F, D, 4-85
29.	Nitrate (as NO ₃)	136	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	N.D.	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1



Report No. 0125 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Microbiological Analysis					
33.	Total Coliforms	1.4×10^4	MPN/100mL	Max. 10	APHA, 21st Ed., 2005, 9221-D, 9-55
34.	E. Coli	Present	MPN/100mL	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
Remark: BDL- Below Detection Limit, DL- Detection Limit, N.D. – Not Detected					

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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).
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