



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-NS0386-121024-WA-INDIABUL-NASHIK		Date: 24.10.2012
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	12.10.2012	Date of Receipt of Sample	12.10.2012
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	13.10.2012	Date of Completion of Analysis	23.10.2012

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	20.1	N.T.U.	Max. 5	APHA 21 st Ed. 2005, 2130-B, 2-9
5.	pH	7.47	-	6.5-8.5	APHA 21 st Ed. 2005, 4500-H ⁺ -B, 4-90
6.	Suspended Solids	137	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	672	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	6.4	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	138	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	376	mg/L	Max. 300	APHA 21 st Ed. 2005, 2340-C, 2-37
11.	Calcium (as Ca)	83.3	mg/L	Max. 75	APHA 21 st Ed. 2005, 3500-Ca-B, 3-65
12.	Magnesium (as Mg)	40.8	mg/L	Max. 30	APHA 21 st Ed. 2005, 3500-Mg-B, 3-84

Page 1 of 3



Report No. 0386 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
13.	Aluminium (as Al)	BDL (DL:0.025)	mg/L	Max. 0.03	APHA 21 st Ed. 2005, 3500-AI-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:0.03)	mg/L	Max. 0.05	IS 3025 (Part 2): 2004
18.	Iron (as Fe)	1.22	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)	0.08	mg/L	Max. 5	IS 3025 (Part 2): 2004
24.	Boron (as B)	0.28	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)	168	mg/L	Max. 250	APHA 21 st Ed. 2005, 4500-CI-B, 4-70
27.	Sulphate (as SO ₄)	140	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
28.	Fluoride (as F)	0.6	mg/L	Max. 1	APHA 21 st Ed. 2005, 4500-F-D, 4-85
29.	Nitrate (as NO ₃)	86.2	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	BDL (DL:0.005)	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	1.70 X 10 ⁴	MPN/100mL	Max.10	APHA 21 st Ed.2005,9221-B,9-55
34.	E-Coli	Present	MPN/100mL	Absent	APHA 21 st Ed.2005,9221-B,9-55
Remark: 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).
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Water Sample Analysis Report

Report No.	ME-NS0385-121031-WA-INDIABUL-NASHIK		Date: 31.10.2012
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	Gulwanch	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	12.10.2012	Date of Receipt of Sample	12.10.2012
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	13.10.2012	Date of Completion of Analysis	23.10.2012

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	1	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	BDL (DL:0.1)	N.T.U.	Max. 5	APHA 21 st Ed. 2005, 2130-B, 2-9
5.	pH	7.80	-	6.5-8.5	APHA 21 st Ed. 2005, 4500-H ⁺ -B, 4-90
6.	Suspended Solids	9	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	1544	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	4.9	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	364	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	1020	mg/L	Max. 300	APHA 21 st Ed. 2005, 2340-C, 2-37
11.	Calcium (as Ca)	139	mg/L	Max. 75	APHA 21 st Ed. 2005, 3500-Ca-B, 3-65
12.	Magnesium (as Mg)	164	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

Page 1 of 2



Report No. 0385 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
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)	0.09	mg/L	Max. 0.3	IS 3025 (Part 2): 2004
19.	Lead (as Pb)	0.02	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)	0.31	mg/L	Max. 1	APHA 21 st Ed. 2005, 4500-B-B, 4-23
25.	Residual free chlorine	4.05	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	665	mg/L	Max. 250	APHA 21 st Ed. 2005, 4500-Cl-B, 4-70
27.	Sulphate (as SO ₄)	237	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
28.	Fluoride (as F)	0.4	mg/L	Max. 1	APHA 21 st Ed. 2005, 4500-F-D, 4-85
29.	Nitrate (as NO ₃)	72.7	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	BDL (DL:005)	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Microbiological Analysis					
33.	Total Coliforms	1.70 X 10 ⁴	MPN /100mL	Max. 10	APHA 21 st Ed. 2005, 9221-B, 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.					

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Water Sample Analysis Report

Report No.	ME-NS0390-121031-WA-INDIABUL-NASHIK		Date: 31.10.2012
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	12.10.2012	Date of Receipt of Sample	12.10.2012
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	13.10.2012	Date of Completion of Analysis	30.10.2012

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	1	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	BDL (DL:0.1)	N.T.U.	Max. 5	APHA 21 st Ed. 2005, 2130-B, 2-9
5.	pH	7.78	-	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	1845	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
8.	Dissolved Oxygen	5.6	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009
9.	Alkalinity (as CaCO ₃)	409	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	802	mg/L	Max. 300	APHA 21 st Ed. 2005, 2340-C, 2-37
11.	Calcium (as Ca)	147	mg/L	Max. 75	APHA 21 st Ed. 2005, 3500-Ca-B, 3-65
12.	Magnesium (as Mg)	106	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

Page 1 of 2



Report No. 0390 cont...

Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
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)	0.20	mg/L	Max. 0.3	IS 3025 (Part 2): 2004
19.	Lead (as Pb)	0.03	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)	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)	5.59	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)	194	mg/L	Max. 250	APHA 21 st Ed. 2005, 4500-Cl-B, 4-70
27.	Sulphate (as SO ₄)	284	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
28.	Fluoride (as F)	0.77	mg/L	Max. 1	APHA 21 st Ed. 2005, 4500-F-D, 4-85
29.	Nitrate (as NO ₃)	109	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	BDL (DL:0.05)	mg/L	Max. 0.01	IS: 3025 (Part 39): 1991, Reaffirmed 2003, Amds.1
Remark: BDL- Below Detection Limit, DL- Detection Limit.					

-END-

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