



Mahabal Enviro Engineers Pvt. Ltd.

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

Water Analysis Report

Report No.	ME/NS/001088/10.12.01/SA/Indiabulls/Nashik		Date: 01/12/2010
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. 3320000384 dt 28.10.2010
Sample Description /Type	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	18/11/2010	Date of Receipt of Sample	18/11/2010
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	19/11/2010	Date of Completion of Analysis	23/11/2010

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	15	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	1	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.5	-	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	946	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	7.1	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO ₃)	374	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	635	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	131	mg/L	Max. 200	APHA, 21 st 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)	75	mg/L	Max. 100	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	<0.025	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-B, 3-17
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 ⁺⁶)	0.03	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	<0.02	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.645	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	0.031	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)	0.48	mg/L	Max. 5	APHA, 21 st Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.04	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	244	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	101	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2003



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Report No. ME/NS/001088/10.12.01/SA/Indiabulls/Nashik Cont...

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.23	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F ⁻ , D, 4-85
29.	Nitrate (as NO ₃)	26	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	N.D.	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)	<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
Microbiological Analysis					
33.	Total Coliforms	1600	MPN Index /100 ml	Max.10	APHA, 21 st Ed., 2005, 9221-B, 9-49
34.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 st 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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Sample Description /Type	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	18/11/2010	Date of Receipt of Sample	18/11/2010
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	19/11/2010	Date of Completion of Analysis	23/11/2010

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	10	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	2.1	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.8	-	6.5-8.5	APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90
6.	Suspended Solids	3	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
7.	Total Dissolved Solids	888	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	7.5	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO ₃)	414	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	423	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	69	mg/L	Max. 200	APHA, 21 st 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)	61	mg/L	Max. 100	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	<0.025	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-B, 3-17
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 ⁺⁶)	<0.02	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	0.045	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.886	mg/L	Max. 1	IS 3025(Part 2): 2004
19.	Lead (as Pb)	0.011	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)	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)	0.63	mg/L	Max. 5	APHA, 21 st Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.04	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	264	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	103	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2003



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Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.37	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F ⁻ , D, 4-85
29.	Nitrate (as NO ₃)	5.20	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	N.D.	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)	N.D.	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
Microbiological Analysis					
33.	Total Coliforms	920	MPN Index /100 ml	Max.10	APHA, 21 st Ed., 2005, 9221-B, 9-49
34.	<i>E. coli</i>	Present	/ 100 ml	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

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

Harish Mendhi
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AUTHORISED SIGNATORY

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Sample Description /Type	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	18/11/2010	Date of Receipt of Sample	18/11/2010
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	19/11/2010	Date of Completion of Analysis	23/11/2010

Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
Physico-Chemical Analysis					
1.	Colour	10	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	0.7	N.T.U.	Max. 5	APHA, 21 st Ed., 2005, 2130-B, 2-9
5.	pH	7.6	-	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	1168	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12)
8.	Dissolved oxygen	7.3	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2003
9.	Alkalinity (as CaCO ₃)	380	mg/L	Max. 200	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
10.	Total Hardness (as CaCO ₃)	789	mg/L	Max. 300	APHA, 21 st Ed., 2005, 2340 C, 2-37
11.	Calcium (as Ca)	127	mg/L	Max. 200	APHA, 21 st 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)	115	mg/L	Max. 100	APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84
13.	Aluminium (as Al)	<0.025	mg/L	Max. 0.2	APHA, 21 st Ed., 2005, 3111-B, 3-17
14.	Arsenic (as As)	N.D.	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 ⁺⁶)	0.025	mg/L	Max. 0.05	IS 3025(Part 2): 2004
17.	Copper (as Cu)	0.024	mg/L	Max. 1.5	IS 3025(Part 2): 2004
18.	Iron (as Fe)	0.155	mg/L	Max. 1	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)	0.03	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)	0.88	mg/L	Max. 5	APHA, 21 st Ed., 2005, 3111-B, 3-17
25.	Residual free chlorine	<0.04	mg/L	Min.0.2	IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02)
26.	Chloride (as Cl)	365	mg/L	Max. 250	APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70
27.	Sulphate (as SO ₄)	118	mg/L	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2003



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Sr. No.	Parameters	Results	Units	Desirable Limit as per IS 10500: 1991	Method Reference
28.	Fluoride (as F)	0.27	mg/L	Max. 1	APHA, 21 st Ed., 2005, 4500-F ⁻ , D, 4-85
29.	Nitrate (as NO ₃)	25.6	mg/L	Max. 45	APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120
30.	Cyanide (as CN)	N.D.	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)	<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
Microbiological Analysis					
33.	Total Coliforms	1600	MPN Index /100 ml	Max. 10	APHA, 21 st Ed., 2005, 9221-B, 9-49
34.	<i>E. coli</i>	Absent	/ 100 ml	Absent	APHA, 21 st Ed., 2005, 9221-F, 9-58
N.D.: Not Detected.					

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

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