



# Mahabal Enviro Engineers Pvt. Ltd.

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## Water Sample Analysis Report

Report No.	ME-NS0117-120720-SA-INDIABUL-NASHIK		Date: 20.07.2012
Name and Address of Customer	<b>INDIABULLS REALTECH LTD.</b> <b>(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 Date: 18.11.2011
Sample Description /Type	Water	Sample Collected by	Laboratory
Sampling Location	IRL Office	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 <sup>st</sup> Ed., 2005, 1060 B, 1-29, 9040, 9-17 & 9060 A, 9-20		
Date of Start of Analysis	15.07.2012	Date of Completion of Analysis	19.07.2012

Sr. No.	Parameter	Result	Unit	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.	Turbidity	0.5	N.T.U.	Max. 5	APHA, 21 <sup>st</sup> Ed., 2005, 2130-B, 2-9
4.	pH	6.82	-	6.5-8.5	APHA, 21 <sup>st</sup> Ed., 2005, 4500-H <sup>+</sup> - B, 4-90
5.	Suspended Solids	BDL (DL:5)	mg/L	-	IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1
6.	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	-	IS 3025 (Part 44): 1993, Reaffirmed 2006, Amds.1
7.	Chemical Oxygen Demand	10	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5220-B, 5-15
8.	Oil & Grease	BDL (DL:0.5)	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 5220-B, 5-37
9.	Total Dissolved Solids	16	mg/L	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12)
10.	Dissolved Oxygen	7.2	mg/L	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

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Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	BDL (DL:0.5)	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
12.	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	5.78	mg/L	-	IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1
13.	Total Hardness (as CaCO <sub>3</sub> )	14.6	mg/L	Max. 300	APHA, 21 <sup>st</sup> Ed., 2005, 2340 C, 2-37
14.	Calcium (as Ca)	BDL (DL:0.4)	mg/L	Max. 75	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Ca-B, 3-65
15.	Magnesium (as Mg)	3.55	mg/L	Max. 30	APHA, 21 <sup>st</sup> Ed., 2005, 3500-Mg, B, 3-84
16.	Arsenic (as As)	BDL (DL:0.01)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
17.	Cadmium (as Cd)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
18.	Chromium (as Cr <sup>+6</sup> )	BDL (DL:0.02)	mg/L	Max. 0.05	APHA 21 <sup>st</sup> Ed.,2005, 3500-Cr,B,3-67
19.	Copper (as Cu)	BDL (DL:0.02)	mg/L	Max. 0.05	IS 3025(Part 2): 2004
20.	Iron (as Fe-Dissolved)	BDL (DL:0.08)	mg/L	-	APHA,21 <sup>st</sup> Ed.,2005,3111 B,3-17
21.	Iron (as Fe-Suspended)	BDL (DL:0.08)	mg/L	-	APHA,21 <sup>st</sup> Ed.,2005,3111 B,3-17
22.	Lead (as Pb)	0.008	mg/L	Max. 0.05	IS 3025(Part 2): 2004
23.	Manganese (as Mn)	BDL (DL:0.02)	mg/L	Max. 0.1	IS 3025(Part 2): 2004
24.	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	Max. 0.001	IS 3025(Part 2): 2004
25.	Selenium (as Se)	BDL (DL:0.005)	mg/L	Max. 0.01	IS 3025(Part 2): 2004
26.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	Max. 5	IS 3025(Part 2): 2004
27.	Nickel	BDL (DL:0.01)	mg/L	-	IS 3025(Part 2): 2004
28.	Barium	BDL (DL:0.2)	mg/L	-	IS 3025(Part 2): 2004
29.	Sodium(as Na)	3.7	mg/L	-	IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1

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Sr. No.	Parameter	Result	Unit	Desirable Limit as per IS 10500: 1991	Method Reference
30.	Potassium (as k)	0.3	mg/L	-	IS 3025(Part 45):1993, Reaffirmed 2009
31.	Chloride (as Cl)	2.45	mg/L	Max. 250	APHA, 21 <sup>st</sup> Ed., 2005, 4500-Cl, B, 4-70
32.	Sulphate (as SO <sub>4</sub> )	BDL (DL:1)	mg/L	Max. 200	IS 3025 (Part 24):1986, Reaffirmed 2009
33.	Fluoride (as F)	BDL (DL:0.05)	mg/L	Max. 1	APHA, 21 <sup>st</sup> Ed., 2005, 4500-F, D, 4-85
34.	Phosphate(PO <sub>4</sub> )	BDL (DL:0.03)	mg/L	-	APHA, 21 <sup>st</sup> Ed. 2005, 4500 P, E, 4-153
35.	Nitrate (as NO <sub>3</sub> )	BDL (DL:0.1)	mg/L	Max. 45	APHA, 21 <sup>st</sup> Ed., 2005, 4500-NO <sub>3</sub> , B -4 -120
36.	Dissolved Silica (as SiO <sub>2</sub> )	0.109	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500-SiO <sub>2</sub> , D, 4-167
37.	Hydrogen Sulphide (as H <sub>2</sub> S)	BDL (DL:0.08)	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500-S <sup>2</sup> , C-4-173
38.	Carbon Dioxide	2.84	mg/L	-	APHA, 21 <sup>st</sup> Ed., 2005, 4500-CO <sub>2</sub> , C, 4-33
39.	Permanganate Value at 25°C	BDL (DL:0.1)	mg/L	-	IS 3025(Part 63)
<b>Microbiological Analysis</b>					
40	Total Coliforms	34	MPN/100mL	Max. 10	APHA, 21 <sup>st</sup> Ed., 2005, 9221-B, 9-49
41.	E. coli	Absent	MPN/100mL	Absent	APHA, 21 <sup>st</sup> Ed., 2005, 9221-F, 9-58
<b>Remarks: BDL: Below Detection Limit, DL: Detection Limit.</b>					

-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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