



Water Sample Analysis Report

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|------------------------------|---|--------------------------------|--|
| Report No. | ME-NS0110-120623-SA-INDIABUL-NASHIK | | Date: 23.06.2012 |
| 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 | Water | Sample Collected by | Laboratory |
| Sampling Location | IRL Office | Sample Quantity/Packing | 10 L x1 No. Plastic can 250ml x1 No. sterile glass bottle |
| Date of Sampling | 14.06.2012 | Date of Receipt of Sample | 14.06.2012 |
| 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 | 15.06.2012 | Date of Completion of Analysis | 21.06.2012 |

| Sr. No. | Parameters | Results | Units | 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. | Turbidity | 2.6 | N.T.U. | Max. 5 | APHA, 21 st Ed., 2005, 2130-B, 2-9 |
| 4. | pH | 9 | - | 6.5-8.5 | APHA, 21 st Ed., 2005, 4500-H ⁺ - B, 4-90 |
| 5. | Suspended Solids | 8 | mg/L | - | IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1 |
| 6. | Biochemical Oxygen Demand (3 days,27°C) | 6 | mg/L | - | IS 3025(Part44): 1993,Reaffirmed 2006, Amds.1 |
| 7. | Chemical Oxygen Demand | 20 | mg/L | - | APHA,21 st Ed.,2005,5220-B,5-15 |
| 8. | Oil & Grease | BDL (DL:1) | Mg/L | - | APHA,21 st Ed.,2005,5220-B,5-37 |
| 9. | Total Dissolved Solids | 28 | mg/L | Max. 500 | IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1(1999-12) |
| 10. | Dissolved Oxygen | 6.3 | mg/L | - | IS 3025 (Part 38): 1989, Reaffirmed 2009 |



Report No. NS0110 cont...

| Sr. No. | Parameters | Results | Units | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---------|--|--------------------|-------|---------------------------------------|--|
| 11. | Phenolphthalein Alkalinity (as CaCO ₃) | 5.6 | mg/L | - | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 12. | Methyl Orange Alkalinity (as CaCO ₃) | 16.7 | Mg/L | - | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 13. | Total Hardness (as CaCO ₃) | 29.7 | mg/L | Max. 300 | APHA, 21 st Ed., 2005, 2340 C, 2-37 |
| 14. | Calcium (as Ca) | 1.49 | mg/L | Max. 75 | APHA, 21 st Ed., 2005, 3500-B, 3-65 |
| 15. | Magnesium (as Mg) | 6.31 | mg/L | Max. 30 | APHA, 21 st Ed., 2005, 3500-Mg, B, 3-84 |
| 16. | Arsenic (as As) | BDL (DL:0.01) | mg/L | Max. 0.01 | IS 3025(Part 2): 2004,3-37 |
| 17. | Cadmium (as Cd) | BDL (DL:0.005) | mg/L | Max. 0.01 | IS 3025(Part 2): 2004 |
| 18. | Chromium (as Cr ⁺⁶) | BDL (DL:0.02) | mg/L | Max. 0.05 | IS 3025(Part 2): 2004 |
| 19. | Copper (as Cu) | BDL (DL:0.04) | mg/L | Max. 0.05 | APHA, 21 st Ed.,2005,3111 B,3-17 |
| 20. | Iron (as Fe-Dissolved) | BDL (DL:0.08) | mg/L | - | APHA, 21 st Ed.,2005,3111 B,3-17 |
| 21. | Iron (as Fe-Suspended) | 0.54 | mg/L | - | APHA, 21 st Ed.,2005,3111 B,3-17 |
| 22. | Lead (as Pb) | BDL (DL:0.008) | mg/L | Max. 0.05 | IS 3025(Part 2): 2004 |
| 23. | Manganese (as Mn) | BDL (DL:0.04) | 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:0.01) | mg/L | - | IS 3025(Part 2): 2004 |
| 29. | Sodium(as Na) | 3.6 | mg/L | - | IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1 |
| 30. | Potassium(as k) | 0.2 | mg/L | - | IS 3025(Part 45):1993, Reaffirmed 2009 |

Page 2 of 3



Report No. NS0110 cont...

| Sr. No. | Parameters | Results | Units | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---------|---|---------------|-------|---------------------------------------|--|
| 31. | Chloride (as Cl) | 6.9 | mg/L | Max. 250 | APHA, 21 st Ed., 2005, 4500-Cl, B, 4-70 |
| 32. | Sulphate (as SO ₄) | BDL (DL:0.2) | 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 st Ed., 2005, 4500-F, D, 4-85 |
| 34. | Phosphate(PO ₄) | BDL (DL:0.05) | mg/L | - | APHA, 21 st Ed. 2005, 4500 P, E, 4-153 |
| 35. | Nitrate (as NO ₃) | BDL (DL:0.1) | mg/L | Max. 45 | APHA, 21 st Ed., 2005, 4500-NO ₃ , B -4 -120 |
| 36. | Dissolved Silica (as H ₂ S) | BDL (DL:0.04) | mg/L | - | APHA, 21 st Ed., 2005, 4500-SiO ₂ , D, 4-167 |
| 37. | Hydrogen Sulphide (as H ₂ S) | BDL (DL:0.08) | mg/L | - | APHA, 21 st Ed., 2005, 4500-S ² , C-4-173 |
| 38. | Carbon Dioxide | BDL (DL:0.4) | mg/L | - | APHA, 21 st Ed., 2005, 4500-CO ₂ , C, 4-33 |
| 39. | Permanganate Value at 25°C | BDL (DL:0.4) | mg/L | - | IS 3025(Part 63) |

Microbiological Analysis

| | | | | | |
|-----|-----------------|--------|-----------|---------|--|
| 40 | Total Coliforms | <1.8 | MPN/100ml | Max. 10 | APHA, 21 st Ed., 2005, 9221-B, 9-49 |
| 41. | E. coli | Absent | MPN/100ml | Present | APHA, 21 st Ed., 2005, 9221-F, 9-58 |

Remarks: 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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