



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-NS0301-120830-SA-INDIABUL-NASHIK | | Date: 30.08.2012 |
| 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 | 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 | 14.08.2012 | Date of Receipt of Sample | 15.08.2012 |
| Sampling Procedure | IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 21 st Ed. 2005, 1060-B, 1-29, | | |
| Date of Start of Analysis | 15.08.2012 | Date of Completion of Analysis | 29.08.2012 |

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|----------------------------------|--|-----------------|------------|---------------------------------------|--|
| Physico-Chemical Analysis | | | | | |
| 1. | Colour | 1 | Hazen Unit | Max. 5 | APHA 21 st Ed. 2005, 2120-B, 2-2 |
| 2. | Odour | Unobjectionable | - | Unobjectionable | IS 3025 (Part 5):1983, Reaffirmed 2006 |
| 3. | Turbidity | BDL (DL:0.1) | N.T.U. | Max. 5 | APHA 21 st Ed. 2005, 2130-B, 2-9 |
| 4. | pH | 7.01 | - | 6.5-8.5 | APHA 21 st Ed. 2005, 4500-H ⁺ -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 at 27°C) | 6 | mg/L | - | IS 3025 (Part 44): 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:0.5) | mg/L | - | APHA 21 st Ed. 2005, 5520-B, 5-37 |
| 9. | Total Dissolved Solids | 24 | mg/L | Max. 500 | IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed.2.1 (1999-12) |
| 10. | Dissolved Oxygen | 6 | mg/L | - | IS 3025 (Part 38): 1989, Reaffirmed 2009 |

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Report No.0301 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---------|--|-----------------|------|---------------------------------------|--|
| 11. | Phenolphthalein Alkalinity (as CaCO ₃) | N.D. | mg/L | - | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 12. | Methyl Orange Alkalinity (as CaCO ₃) | 6.2 | mg/L | - | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 13. | Total Hardness (as CaCO ₃) | 19 | mg/L | Max. 300 | APHA 21 st Ed. 2005, 2340 C, 2-37 |
| 14. | Calcium (as Ca) | 2.40 | mg/L | Max. 75 | APHA 21 st Ed. 2005, 3500-Ca-B, 3-65 |
| 15. | Magnesium (as Mg) | 3.16 | 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 |
| 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 | APHA 21 st 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) | 0.15 | mg/L | - | APHA 21 st Ed. 2005, 3111-B, 3-17 |
| 21. | Iron (as Fe-Suspended) | 0.15 | 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:0.02) | 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) | 0.0058 | mg/L | Max. 0.01 | IS 3025(Part 2): 2004 |
| 26. | Zinc (as Zn) | 0.17 | mg/L | Max. 5 | IS 3025(Part 2): 2004 |
| 27. | Nickel (as Ni) | BDL (DL:0.06) | mg/L | - | IS 3025(Part 2): 2004 |
| 28. | Barium (as B) | BDL (DL:0.1) | mg/L | - | IS 3025(Part 2): 2004 |
| 29. | Sodium (as Na) | 3.8 | mg/L | - | IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1 |
| 30. | Potassium (as K) | 0.3 | mg/L | - | IS 3025(Part 45): 1993, Reaffirmed 2009, Amds.1 |
| 31. | Chloride (as Cl) | 1.96 | mg/L | Max. 250 | APHA 21 st Ed. 2005, 4500-Cl-B, 4-70 |



Report No.0301 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|--|---|----------------|-----------|---------------------------------------|---|
| 32. | Sulphate (as SO ₄) | 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 st Ed. 2005, 4500-F ⁻ -D, 4-85 |
| 34. | Phosphate (as PO ₄) | BDL (DL: 0.03) | 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 -E, 4-123 |
| 36. | Dissolved Silica (as SiO ₂) | 0.098 | 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 | 1.95 | mg/L | - | APHA 21 st Ed. 2005, 4500-CO ₂ -C, 4-33 |
| 39. | Permanganate Value at 25°C | BDL (DL: 0.1) | mg/L | - | IS 3025:1964, 51 Pg-96, |
| Microbiological Analysis | | | | | |
| 40 | Total Coliforms | 540 | MPN/100mL | Max.10 | APHA 21 st Ed. 2005, 9221-B, 9-49 |
| 41. | E-Coli | Absent | MPN/100mL | Absent | 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:

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.



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Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

| | | | |
|-------------------------------------|--|---------------------------------------|---|
| Report No. | ME-NS0303-120830-SA-INDIABUL-NASHIK | | Date: 30.08.2012 |
| 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 | 14.08.2012 | Date of Receipt of Sample | 15.08.2012 |
| 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 | 15.08.2012 | Date of Completion of Analysis | 29.08.2012 |

| 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 | 1.8 | N.T.U. | Max. 5 | APHA 21 st Ed. 2005, 2130-B, 2-9 |
| 5. | pH | 8.08 | - | 6.5-8.5 | APHA 21 st Ed. 2005, 4500-H ⁺ -B, 4-90 |
| 6. | Suspended Solids | 6 | mg/L | - | IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1 |
| 7. | Total Dissolved Solids | 688 | mg/L | Max. 500 | IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12) |
| 8. | Dissolved Oxygen | 5.3 | mg/L | - | IS 3025 (Part 38): 1989, Reaffirmed 2009 |
| 9. | Alkalinity (as CaCO ₃) | 129 | mg/L | Max. 200 | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 10. | Total Hardness (as CaCO ₃) | 424 | mg/L | Max. 300 | APHA 21 st Ed. 2005, 2340-C, 2-37 |
| 11. | Calcium (as Ca) | 97 | mg/L | Max. 75 | APHA, 21 st Ed. 2005, 3500-Ca-B, 3-65 |

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Report No.0303 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---------|--|--------------------|------|---------------------------------------|--|
| 12. | Magnesium (as Mg) | 44.2 | 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 |
| 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) | 0.09 | mg/L | Max. 5 | IS 3025(Part 2): 2004 |
| 24. | Boron (as B) | 0.35 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-B-B, 4-23 |
| 25. | Residual free chlorine | BDL (DL:0.01) | 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) | 92.1 | mg/L | Max. 200 | IS 3025 (Part 24): 1986, Reaffirmed 2009 |
| 28. | Fluoride (as F) | 0.56 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-F-D, 4-85 |
| 29. | Nitrate (as NO ₃) | 31.1 | mg/L | Max. 45 | APHA 21 st Ed. 2005, 4500-NO ₃ -E, 4-123 |
| 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 |



Report No.0303 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|--|-----------------|---------|-----------|---------------------------------------|--|
| Microbiological Analysis | | | | | |
| 33. | Total Coliforms | 920 | MPN/100mL | Max. 10 | APHA 21 st 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 | | | | | |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER

Note:

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Water Sample Analysis Report

| | | | |
|-------------------------------------|--|---------------------------------------|--|
| Report No. | ME-NS0304-120830-SA-INDIABUL-NASHIK | | Date: 30.08.2012 |
| 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 250 mL X 1 No. Sterile Glass Bottle |
| Date of Sampling | 14.08.2012 | Date of Receipt of Sample | 15.08.2012 |
| 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 | 15.08.2012 | Date of Completion of Analysis | 29.08.2012 |

| 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 | 1.1 | N.T.U. | Max. 5 | APHA 21 st Ed. 2005, 2130-B, 2-9 |
| 5. | pH | 7.61 | - | 6.5-8.5 | APHA 21 st Ed. 2005, 4500-H ⁺ - B, 4-90 |
| 6. | Suspended Solids | 10 | mg/L | - | IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1 |
| 7. | Total Dissolved Solids | 1108 | mg/L | Max. 500 | IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12) |
| 8. | Dissolved Oxygen | 5.1 | mg/L | - | IS 3025 (Part 38): 1989, Reaffirmed 2009 |
| 9. | Alkalinity (as CaCO ₃) | 291 | mg/L | Max. 200 | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 10. | Total Hardness (as CaCO ₃) | 420 | mg/L | Max. 300 | APHA 21 st Ed. 2005, 2340-C, 2-37 |
| 11. | Calcium (as Ca) | 61.2 | 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.0304 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---------|--|-----------------|------|---------------------------------------|--|
| 12 | Magnesium (as Mg) | 65.0 | 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) | 0.81 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-B-B, 4-23 |
| 25. | Residual free chlorine | BDL (DL:0.01) | mg/L | Min.0.2 | IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02) |
| 26. | Chloride (as Cl) | 271 | mg/L | Max. 250 | APHA 21 st Ed. 2005, 4500-Cl-B, 4-70 |
| 27. | Sulphate (as SO ₄) | 243 | mg/L | Max. 200 | IS 3025 (Part 24):1986, Reaffirmed 2009 |
| 28. | Fluoride (as F) | 0.67 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-F ⁻ -D, 4-85 |
| 29. | Nitrate (as NO ₃) | 164 | mg/L | Max. 45 | APHA 21 st Ed. 2005, 4500-NO ₃ -E, 4-123 |
| 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 |



Report No.0304 cont...

| Sr. No. | Parameter | Result | Unit | Desirable Limit as per IS 10500: 1991 | Method Reference |
|---|-----------------|---------|------------|---------------------------------------|--|
| Microbiological Analysis | | | | | |
| 33. | Total Coliforms | 540 | MPN/ 100mL | Max. 10 | APHA 21 st Ed. 2005, 9221-D, 9-55 |
| 34. | E-Coli | Present | MPN/ 100mL | Absent | 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:

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Phone: 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Water Sample Analysis Report

| | | | |
|-------------------------------------|--|---------------------------------------|---|
| Report No. | ME-NS0302-120830-SA-INDIABUL-NASHIK | | Date: 30.08.2012 |
| 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 |
| Date of Sampling | 14.08.2012 | Date of Receipt of Sample | 15.08.2012 |
| Sampling Procedure | IS 3025 (Part 1): 1987, Reaffirmed 2003; & APHA 21 st Ed. 2005, 1060-B | | |
| Date of Start of Analysis | 15.08.2012 | Date of Completion of Analysis | 29.08.2012 |

| 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 | 0.4 | N.T.U. | Max. 5 | APHA 21 st Ed. 2005, 2130-B, 2-9 |
| 5. | pH | 8.12 | - | 6.5-8.5 | APHA 21 st Ed. 2005, 4500-H ⁺ -B, 4-90 |
| 6. | Suspended Solids | BDL (DL: 5) | mg/L | - | IS 3025 (Part 17): 1984, Reaffirmed 2006, Amds.1 |
| 7. | Total Dissolved Solids | 920 | mg/L | Max. 500 | IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12) |
| 8. | Dissolved Oxygen | 4.5 | mg/L | - | IS 3025 (Part 38): 1989, Reaffirmed 2009 |
| 9. | Alkalinity (as CaCO ₃) | 243 | mg/L | Max. 200 | IS 3025 (Part 23): 1986, Reaffirmed 2003, Amds.1 |
| 10. | Total Hardness (as CaCO ₃) | 484 | mg/L | Max. 300 | APHA 21 st Ed. 2005, 2340-C, 2-37 |
| 11. | Calcium (as Ca) | 95.4 | mg/L | Max. 75 | APHA 21 st Ed. 2005, 3500-Ca-B, 3-65 |
| 12. | Magnesium (as Mg) | 59.8 | 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 |



Report No.0302 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) | 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) | 0.67 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-B-B, 4-23 |
| 25. | Residual free chlorine | BDL (DL:0.01) | mg/L | Min.0.2 | IS 3025 (Part 26): 1986, Reaffirmed 2003, Ed. 2.1 (2004-02) |
| 26. | Chloride (as Cl) | 210 | mg/L | Max. 250 | APHA 21 st Ed. 2005, 4500-Cl- B, 4-70 |
| 27. | Sulphate (as SO ₄) | 136 | mg/L | Max. 200 | IS 3025 (Part 24):1986, Reaffirmed 2009 |
| 28. | Fluoride (as F) | 1.0 | mg/L | Max. 1 | APHA 21 st Ed. 2005, 4500-F ⁻ -D, 4-85 |
| 29. | Nitrate (as NO ₃) | 32.0 | mg/L | Max. 45 | APHA 21 st Ed. 2005, 4500-NO ₃ -E, 4-123 |
| 30. | Cyanide (as CN) | BDL (DL:0.001) | mg/L | Max. 0.05 | APHA 21 st Ed. 2005, 4500-CN, C,4-39 & E, 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 |

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).
- This report is not to be reproduced except in full, without written approval of the laboratory.

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