



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Ambient Air Quality Monitoring Report

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| <b>Report No. :</b> ME-NS0111-160521-SA-RNPL-NASHIK |   | <b>Date:</b> 21.05.2016               |   |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>  |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014  |
| <b>Sample Description/ Type</b>                     | Ambient Air   | <b>Sample Collected by</b>            | Laboratory  |
| <b>Sampling Location</b>                            | Near Boiler House   | <b>Sample Quantity/Packing</b>        | PM <sub>10</sub> , B(a)P, Ni, As, Pb:<br>Filter Paper 1 X 3 No.<br>PM <sub>2.5</sub> : Filter Paper 1 X 1 No.<br>SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NH <sub>3</sub> : 10 mL X 24 No. Plastic Bottle<br>CO: 1 No. Plastic Bulb 1 No.<br>O <sub>3</sub> : 10 mL X 1 No. Plastic Bottle<br>Benzene: Charcoal Tubes:<br>1 X 6 No.<br>Mercury: 30 mL X 6 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 12.05.2016 to<br>13.05.2016   | <b>Date of Receipt of Sample</b>      | 13.05.2016  |
| <b>Sampling Procedure</b>                           | As per method reference   |                                       |   |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016  |


| Meteorological Data                 |                     |                                      |  |   |
|-------------------------------------|---------------------|--------------------------------------|--|---|
| Average Wind velocity<br>1.85 km/h  | Relative Humidity % |                                      | Temperature °C   |   |
|                                     | Max.                | Min.                                 | Max.   | Min.  |
|                                     |                     | 83                                   | 30   | 36  |
| <b>Location :</b> Near Boiler House |                     | <b>Duration of Survey :</b> 24 hours |  |   |
| Parameter                           | Unit                | Result                               | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference  |
| Sulphur Dioxide (SO <sub>2</sub> )  | µg/m <sup>3</sup>   | 7.4                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1 |
| Nitrogen Dioxide (NO <sub>2</sub> ) | µg/m <sup>3</sup>   | 3.8                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7 |

*Report No. 0111 cont...*

| Parameter   | Unit                     | Result | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference   |
|---|--------------------------|--------|--|--|
| Particulate Matter (size less than 10 $\mu\text{m}$ ) or $\text{PM}_{10}$   | $\mu\text{g}/\text{m}^3$ | 89     | 100  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11 |
| Particulate Matter (size less than 2.5 $\mu\text{m}$ ) or $\text{PM}_{2.5}$   | $\mu\text{g}/\text{m}^3$ | 19     | 60   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15  |
| Ozone ( $\text{O}_3$ )  | $\mu\text{g}/\text{m}^3$ | <19.6  | 180  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31  |
| Lead (Pb)   | $\mu\text{g}/\text{m}^3$ | <0.02  | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Carbon Monoxide (CO)  | $\text{mg}/\text{m}^3$   | 2.03   | 4  | IS 5182 (Part 10):1999 RA 2003   |
| Ammonia ( $\text{NH}_3$ )   | $\mu\text{g}/\text{m}^3$ | <20    | 400  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35  |
| Benzene ( $\text{C}_6\text{H}_6$ )  | $\mu\text{g}/\text{m}^3$ | 2.8    | 05   | IS 5182 (Part 11): 2006  |
| Benzo(a)Pyrene (BaP) (Particulate phase only)   | $\text{ng}/\text{m}^3$   | <0.5   | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40  |
| Arsenic (As)  | $\text{ng}/\text{m}^3$   | <0.3   | 06   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Nickel (Ni)   | $\text{ng}/\text{m}^3$   | <3     | 20   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Mercury   | $\mu\text{g}/\text{m}^3$ | <0.06  | -  | EPA/625/R-96/010 a Compendium Method 10-3.4  |
| <b>Remarks:</b> TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, $\text{PM}_{10}$ , $\text{PM}_{2.5}$ , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel |                          |        |  |  |

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


**Kishor Yeole**  
**BRANCH MANAGER**


Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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## Ambient Air Quality Monitoring Report

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| <b>Report No. :</b> ME-NS0110-160521-SA-RNPL-NASHIK |   | <b>Date:</b> 21.05.2016               |   |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>  |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014  |
| <b>Sample Description/ Type</b>                     | Ambient Air   | <b>Sample Collected by</b>            | Laboratory  |
| <b>Sampling Location</b>                            | Near RNPL Office  | <b>Sample Quantity/Packing</b>        | PM <sub>10</sub> , B(a)P, Ni, As, Pb:<br>Filter Paper 1 X 3 No.<br>PM <sub>2.5</sub> : Filter Paper 1 X 1 No.<br>SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NH <sub>3</sub> : 10 mL X 24 No. Plastic Bottle<br>CO: 1 No. Plastic Bulb 1 No.<br>O <sub>3</sub> : 10 mL X 1 No. Plastic Bottle<br>Benzene: Charcoal Tubes:<br>1 X 6 No.<br>Mercury: 30 mL X 6 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 12.05.2016 to<br>13.05.2016   | <b>Date of Receipt of Sample</b>      | 13.05.2016  |
| <b>Sampling Procedure</b>                           | As per method reference   |                                       |   |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016  |

| Meteorological Data                 |                     |                                      |  |   |
|-------------------------------------|---------------------|--------------------------------------|--|---|
| Average Wind velocity<br>1.85 km/h  | Relative Humidity % |                                      | Temperature °C   |   |
|                                     | Max.                | Min.                                 | Max.   | Min.  |
|                                     |                     | 83                                   | 30   | 36  |
| <b>Location :</b> Near RNPL Office  |                     | <b>Duration of Survey :</b> 24 hours |  |   |
| Parameter                           | Unit                | Result                               | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference  |
| Sulphur Dioxide (SO <sub>2</sub> )  | µg/m <sup>3</sup>   | 8.8                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1 |
| Nitrogen Dioxide (NO <sub>2</sub> ) | µg/m <sup>3</sup>   | 4.6                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7 |

*Report No. 0110 cont...*

| Parameter   | Unit              | Result | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference   |
|---|-------------------|--------|--|--|
| Particulate Matter (size less than 10 µm) or PM <sub>10</sub>   | µg/m <sup>3</sup> | 86     | 100  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>  | µg/m <sup>3</sup> | 15     | 60   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15  |
| Ozone (O <sub>3</sub> )   | µg/m <sup>3</sup> | <19.6  | 180  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31  |
| Lead (Pb)   | µg/m <sup>3</sup> | <0.02  | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Carbon Monoxide (CO)  | mg/m <sup>3</sup> | <0.5   | 4  | IS 5182 (Part 10):1999 RA 2003   |
| Ammonia (NH <sub>3</sub> )  | µg/m <sup>3</sup> | <20    | 400  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35  |
| Benzene (C <sub>6</sub> H <sub>6</sub> )  | µg/m <sup>3</sup> | 3.22   | 05   | IS 5182 (Part 11): 2006  |
| Benzo(a)Pyrene (BaP) (Particulate phase only)   | ng/m <sup>3</sup> | <0.5   | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40  |
| Arsenic (As)  | ng/m <sup>3</sup> | <0.3   | 06   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Nickel (Ni)   | ng/m <sup>3</sup> | <3     | 20   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Mercury   | µg/m <sup>3</sup> | <0.06  | -  | EPA/625/R-96/010 a Compendium Method 10-3.4  |
| <b>Remarks:</b> TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel |                   |        |  |  |

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## Ambient Air Quality Monitoring Report

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| <b>Report No. :</b> ME-NS0109-160521-SA-RNPL-NASHIK |   | <b>Date:</b> 21.05.2016               |   |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>  |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014  |
| <b>Sample Description/ Type</b>                     | Ambient Air   | <b>Sample Collected by</b>            | Laboratory  |
| <b>Sampling Location</b>                            | Near Weigh Bridge   | <b>Sample Quantity/Packing</b>        | PM <sub>10</sub> , B(a)P, Ni, As, Pb:<br>Filter Paper 1 X 3 No.<br>PM <sub>2.5</sub> : Filter Paper 1 X 1 No.<br>SO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NO <sub>2</sub> : 30 mL X 6 No. Plastic Bottle<br>NH <sub>3</sub> : 10 mL X 24 No. Plastic Bottle<br>CO: 1 No. Plastic Bulb 1 No.<br>O <sub>3</sub> : 10 mL X 1 No. Plastic Bottle<br>Benzene: Charcoal Tubes:<br>1 X 6 No.<br>Mercury: 30 mL X 6 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 12.05.2016 to<br>13.05.2016   | <b>Date of Receipt of Sample</b>      | 13.05.2016  |
| <b>Sampling Procedure</b>                           | As per method reference   |                                       |   |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016  |


| Meteorological Data                 |                     |                                      |  |   |
|-------------------------------------|---------------------|--------------------------------------|--|---|
| Average Wind velocity<br>1.85 km/h  | Relative Humidity % |                                      | Temperature °C   |   |
|                                     | Max.                | Min.                                 | Max.   | Min.  |
|                                     |                     | 83                                   | 30   | 36  |
| <b>Location :</b> Near Weigh Bridge |                     | <b>Duration of Survey :</b> 24 hours |  |   |
| Parameter                           | Unit                | Result                               | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference  |
| Sulphur Dioxide (SO <sub>2</sub> )  | µg/m <sup>3</sup>   | 8.1                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1 |
| Nitrogen Dioxide (NO <sub>2</sub> ) | µg/m <sup>3</sup>   | 4.6                                  | 80   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7 |

*Report No. 0109 cont...*

| Parameter   | Unit              | Result | # National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area) | Method Reference   |
|---|-------------------|--------|--|--|
| Particulate Matter (size less than 10 µm) or PM <sub>10</sub>   | µg/m <sup>3</sup> | 89     | 100  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>  | µg/m <sup>3</sup> | 30     | 60   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15  |
| Ozone (O <sub>3</sub> )   | µg/m <sup>3</sup> | <19.6  | 180  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31  |
| Lead (Pb)   | µg/m <sup>3</sup> | <0.02  | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Carbon Monoxide (CO)  | mg/m <sup>3</sup> | 2.15   | 4  | IS 5182 (Part 10):1999 RA 2003   |
| Ammonia (NH <sub>3</sub> )  | µg/m <sup>3</sup> | <20    | 400  | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35  |
| Benzene (C <sub>6</sub> H <sub>6</sub> )  | µg/m <sup>3</sup> | 3.12   | 05   | IS 5182 (Part 11): 2006  |
| Benzo(a)Pyrene (BaP) (Particulate phase only)   | ng/m <sup>3</sup> | <0.5   | 01   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40  |
| Arsenic (As)  | ng/m <sup>3</sup> | <0.3   | 06   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Nickel (Ni)   | ng/m <sup>3</sup> | <3     | 20   | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48  |
| Mercury   | µg/m <sup>3</sup> | <0.06  | -  | EPA/625/R-96/010 a Compendium Method 10-3.4  |
| <b>Remarks:</b> TWA - Time Weighted Average. #- NAAQS(National Ambient Air Quality Standards(Industrial, Residential, Rural and other area) specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia; 8 h. TWA in case of Carbon Monoxide; 1 h. TWA in case of Ozone, Annual TWA in case of Benzene, Benzo (a)Pyrene, Arsenic and Nickel |                   |        |  |  |

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## Water Sample Analysis Report

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| <b>Report No. :</b> ME-NS0115-160523-SA-RNPL-NASHIK |   | <b>Date:</b> 23.05.2016               |  |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>   |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014     |
| <b>Sample Description/Type</b>                      | Ground Water  | <b>Sample Collected by</b>            | Laboratory   |
| <b>Sampling Location</b>                            | Village Musalgaon   | <b>Sample Quantity/Packing</b>        | 5 L X 1 No. Plastic Can<br>1 L X 1 No. Glass Bottle<br>300 mL X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>      | 13.05.2016   |
| <b>Sampling Procedure</b>                           | IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39   |                                       |  |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016   |

| Sr. No.                          | Parameter                              | Unit        | Result    | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference                                    |
|----------------------------------|--|-------------|-----------|--|---|
| <b>Physico-Chemical Analysis</b> |  |             |           |  |   |
| 1.                               | Colour                                 | Hazen Units | 1         | Max. 5   | IS 3025 (Part 4): 1983, RA 2006                     |
| 2.                               | Odour                                  | -           | Agreeable | Agreeable  | IS 3025 (Part 5): 1983, RA 2006                     |
| 3.                               | Turbidity                              | N.T.U.      | <0.1      | Max. 1   | IS 3025 (Part 10): 1983, RA 2006                    |
| 4.                               | pH                                     | -           | 7.8       | 6.5-8.5  | IS 3025 (Part II): 1983, RA 2006                    |
| 5.                               | Suspended Solids                       | mg/L        | 6         | -  | IS 3025 (Part 17): 1984, RA 2006, Amds.1            |
| 6.                               | Total Dissolved Solids                 | mg/L        | 1325      | Max. 500   | IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12) |
| 7.                               | Dissolved Oxygen                       | mg/L        | 6.2       | -  | IS 3025 (Part 38): 1989, RA 2009                    |
| 8.                               | Alkalinity (as CaCO <sub>3</sub> )     | mg/L        | 293       | Max. 200   | IS 3025 (Part 23): 1986, RA 2009, Amds.1            |
| 9.                               | Total Hardness (as CaCO <sub>3</sub> ) | mg/L        | 692       | Max. 200   | IS 3025 (Part 21): 1983, RA 2006                    |
| 10.                              | Calcium (as Ca)                        | mg/L        | 140       | Max. 75  | IS 3025 (Part 40): 1991, RA 2009, Amds.1            |
| 11.                              | Magnesium (as Mg)                      | mg/L        | 83.1      | Max. 30  | IS 3025 (Part 46): 1994, RA 2009, Amds.2            |
| 12.                              | Aluminium (as Al)                      | mg/L        | <0.025    | Max. 0.03  | IS 3025 (Part 55): 2003, RA 2009                    |

*Report No.0115 cont...*

| Sr. No.         | Parameter  | Unit | Result  | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference  |
|-----------------|--|------|---------|--|---|
| 13.             | Arsenic (as As)  | mg/L | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 14.             | Cadmium (as Cd)  | mg/L | <0.002  | Max. 0.003   | IS 3025 (Part 2): 2004  |
| 15.             | Chromium (as Cr)   | mg/L | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 16.             | Copper (as Cu)   | mg/L | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 17.             | Iron (as Fe)   | mg/L | <0.08   | Max. 0.3   | APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18                    |
| 18.             | Lead (as Pb)   | mg/L | <0.008  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 19.             | Manganese (as Mn)  | mg/L | 0.031   | Max. 0.1   | IS 3025 (Part 2): 2004  |
| 20.             | Mercury (as Hg)  | mg/L | <0.0008 | Max. 0.001   | IS 3025 (Part 2): 2004  |
| 21.             | Selenium (as Se)   | mg/L | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 22.             | Zinc (as Zn)   | mg/L | <0.05   | Max. 5   | IS 3025 (Part 2): 2004  |
| 23.             | Boron (as B)   | mg/L | 0.82    | Max. 0.5   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25                  |
| 24.             | Chloride (as Cl)   | mg/L | 339     | Max. 250   | IS 3025 (Part 32): 1988, Reaffirmed 2009                        |
| 25.             | Sulphate (as SO <sub>4</sub> )                           | mg/L | 210     | Max. 200   | IS 3025 (Part 24): 1986, Reaffirmed 2009                        |
| 26.             | Fluoride (as F)  | mg/L | 1.08    | Max. 1   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87                |
| 27.             | Nitrate (as NO <sub>3</sub> )                            | mg/L | 76.4    | Max. 45  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , B -4-122 |
| 28.             | Cyanide (as CN)  | mg/L | <0.001  | Max. 0.05  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-CN, C & E, 4-41 & 4-43     |
| 29.             | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | <0.001  | Max. 0.001   | APHA 22 <sup>nd</sup> Ed. 2012, 5530-B & C, 5-44 & 5-47         |
| 30.             | Mineral Oil  | mg/L | <0.005  | Max. 0.5   | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds. 1               |
| <b>Remarks:</b> |  |      |         |  |   |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



**Kishor Yeole**  
**BRANCH MANAGER**



Note:

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





# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

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## Water Sample Analysis Report

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| <b>Report No. :</b> ME-NS0114-160523-SA-RNPL-NASHIK |   | <b>Date:</b> 23.05.2016               |   |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>  |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014  |
| <b>Sample Description/Type</b>                      | Ground Water  | <b>Sample Collected by</b>            | Laboratory  |
| <b>Sampling Location</b>                            | Village Gulvanch  | <b>Sample Quantity/Packing</b>        | 5 L X 1 No. Plastic Can<br>1 L X 1 No. Glass Bottle<br>250 mL X 1 No. Sterile Glass Bottle<br>300 mL X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>      | 13.05.2016  |
| <b>Sampling Procedure</b>                           | IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39              |                                       |   |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016  |

| Sr. No.                          | Parameter                              | Unit        | Result    | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference                                    |
|----------------------------------|--|-------------|-----------|--|---|
| <b>Physico-Chemical Analysis</b> |  |             |           |  |   |
| 1.                               | Colour                                 | Hazen Units | 1         | Max. 5   | IS 3025 (Part 4): 1983, RA 2006                     |
| 2.                               | Odour                                  | -           | Agreeable | Agreeable  | IS 3025 (Part 5): 1983, RA 2006                     |
| 3.                               | Turbidity                              | N.T.U.      | <0.1      | Max. 1   | IS 3025 (Part 10): 1983, RA 2006                    |
| 4.                               | pH                                     | -           | 8.0       | 6.5-8.5  | IS 3025 (Part II): 1983, RA 2006                    |
| 5.                               | Suspended Solids                       | mg/L        | <5        | -  | IS 3025 (Part 17): 1984, RA 2006, Amds.1            |
| 6.                               | Total Dissolved Solids                 | mg/L        | 1220      | Max. 500   | IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12) |
| 7.                               | Dissolved Oxygen                       | mg/L        | 6.4       | -  | IS 3025 (Part 38): 1989, RA 2009                    |
| 8.                               | Alkalinity (as CaCO <sub>3</sub> )     | mg/L        | 224       | Max. 200   | IS 3025 (Part 23): 1986, RA 2009, Amds.1            |
| 9.                               | Total Hardness (as CaCO <sub>3</sub> ) | mg/L        | 730       | Max. 200   | IS 3025 (Part 21): 1983, RA 2006                    |
| 10.                              | Calcium (as Ca)                        | mg/L        | 156       | Max. 75  | IS 3025 (Part 40): 1991, RA 2009, Amds.1            |
| 11.                              | Magnesium (as Mg)                      | mg/L        | 82.6      | Max. 30  | IS 3025 (Part 46): 1994, RA 2009, Amds.2            |
| 12.                              | Aluminium (as Al)                      | mg/L        | <0.025    | Max. 0.03  | IS 3025 (Part 55): 2003, RA 2009                    |

*Report No.0114 cont...*

| Sr. No.                         | Parameter  | Unit        | Result  | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference  |
|---------------------------------|--|-------------|---------|--|---|
| 13.                             | Arsenic (as As)  | mg/L        | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 14.                             | Cadmium (as Cd)  | mg/L        | <0.002  | Max. 0.003   | IS 3025 (Part 2): 2004  |
| 15.                             | Chromium (as Cr)   | mg/L        | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 16.                             | Copper (as Cu)   | mg/L        | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 17.                             | Iron (as Fe)   | mg/L        | <0.08   | Max. 0.3   | APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18                    |
| 18.                             | Lead (as Pb)   | mg/L        | <0.008  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 19.                             | Manganese (as Mn)  | mg/L        | 0.030   | Max. 0.1   | IS 3025 (Part 2): 2004  |
| 20.                             | Mercury (as Hg)  | mg/L        | <0.0008 | Max. 0.001   | IS 3025 (Part 2): 2004  |
| 21.                             | Selenium (as Se)   | mg/L        | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 22.                             | Zinc (as Zn)   | mg/L        | <0.05   | Max. 5   | IS 3025 (Part 2): 2004  |
| 23.                             | Boron (as B)   | mg/L        | 0.98    | Max. 0.5   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-B, 4-25                  |
| 24.                             | Chloride (as Cl)   | mg/L        | 303     | Max. 250   | IS 3025 (Part 32): 1988, Reaffirmed 2009                        |
| 25.                             | Sulphate (as SO <sub>4</sub> )                           | mg/L        | 98.2    | Max. 200   | IS 3025 (Part 24): 1986, Reaffirmed 2009                        |
| 26.                             | Fluoride (as F)  | mg/L        | 1.16    | Max. 1   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87                |
| 27.                             | Nitrate (as NO <sub>3</sub> )                            | mg/L        | 14.2    | Max. 45  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , B -4-122 |
| 28.                             | Cyanide (as CN)  | mg/L        | <0.001  | Max. 0.05  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-CN, C & E, 4-41 & 4-43     |
| 29.                             | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L        | <0.001  | Max. 0.001   | APHA 22 <sup>nd</sup> Ed. 2012, 5530-B & C, 5-44 & 5-47         |
| 30.                             | Mineral Oil  | mg/L        | <0.005  | Max. 0.5   | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1                |
| <b>Microbiological Analysis</b> |  |             |         |  |   |
| 31.                             | Total Coliforms  | MPN /100 mL | Absent  | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-B, 9-66                    |
| 32.                             | <i>E.coli</i>  | MPN /100 mL | Absent  | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76                    |
| <b>Remarks:</b>                 |  |             |         |  |   |

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole  
**BRANCH MANAGER**



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## Water Sample Analysis Report

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| <b>Report No. :</b> ME-NS0112-160523-SA-RNPL-NASHIK |   | <b>Date:</b> 23.05.2016               |  |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>   |
|   |   |                                       | Your Work Order No.<br>3320004967 Dt. 12.01.2016<br>Amendment: 1 Dt.16.01.2014   |
| <b>Sample Description/Type</b>                      | Water   | <b>Sample Collected by</b>            | Laboratory   |
| <b>Sampling Location</b>                            | New Field Hostel RO Outlet  | <b>Sample Quantity/Packing</b>        | 5 L X 1 No. Plastic Can<br>1 L X 1 No. Glass Bottle<br>250 mL X 1 No. Sterile Glass Bottle<br>300mL X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>      | 13.05.2016   |
| <b>Sampling Procedure</b>                           | IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 <sup>nd</sup> Ed. 2012,1060 B, 1-39, 9060 A, 9-35                    |                                       |  |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016   |

| Sr. No.                          | Parameter  | Unit       | Result    | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference                                    |
|----------------------------------|--|------------|-----------|--|---|
| <b>Physico-Chemical Analysis</b> |  |            |           |  |   |
| 1.                               | Colour   | Hazen Unit | 1         | Max. 5   | IS 3025 (Part 4): 1983, RA 2006                     |
| 2.                               | Odour  | -          | Agreeable | Agreeable  | IS 3025 (Part 5): 1983, RA 2006                     |
| 3.                               | Turbidity  | N.T.U.     | <0.1      | Max. 1   | IS 3025 (Part 10): 1983, RA 2006                    |
| 4.                               | pH   | -          | 8.3       | 6.5-8.5  | IS 3025 (Part II): 1983, RA 2006                    |
| 5.                               | Suspended Solids                                     | mg/L       | <5        | -  | IS 3025 (Part 17): 1984, RA 2006, Amds.1            |
| 6.                               | Biochemical Oxygen Demand (3 days 27 <sup>o</sup> C) | mg/L       | <1        | -  | IS 3025 (Part 17): 1984, RA 2006, Amds.1            |
| 7.                               | Chemical Oxygen Demand                               | mg/L       | <4        | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 5220-B, 5-17       |
| 8.                               | Oil & Grease   | mg/L       | <1        | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-40       |
| 9.                               | Total Dissolved Solids                               | mg/L       | 24        | Max. 500   | IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12) |
| 10.                              | Dissolved Oxygen                                     | mg/L       | 7.0       | -  | IS 3025 (Part 38): 1989, Reaffirmed 2009            |



Report No. 0112 cont...

| Sr. No. | Parameter  | Result | Unit    | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference                                 |
|---------|--|--------|---------|--|--|
| 11.     | Phenolphthalein Alkalinity (as CaCO <sub>3</sub> ) | mg/L   | 6       | -  | IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1 |
| 12.     | Methyl Orange Alkalinity (as CaCO <sub>3</sub> )   | mg/L   | 21      | -  | IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1 |
| 13.     | Total Hardness (as CaCO <sub>3</sub> )             | mg/L   | 24      | Max. 200   | IS 3025 (Part 21): 1983, RA 2006                 |
| 14.     | Calcium (as Ca)                                    | mg/L   | 1.2     | Max. 75  | IS 3025 (Part 40): 1991, RA 2009, Amds.1         |
| 15.     | Magnesium (as Mg)                                  | mg/L   | 5.1     | Max. 30  | IS 3025 (Part 46): 1994, RA 2009, Amds.2         |
| 16.     | Arsenic (as As)                                    | mg/L   | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004                           |
| 17.     | Cadmium (as Cd)                                    | mg/L   | <0.002  | Max. 0.003   | IS 3025 (Part 2): 2004                           |
| 18.     | Chromium (as Cr)                                   | mg/L   | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004                           |
| 19.     | Copper (as Cu)                                     | mg/L   | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004                           |
| 20.     | Iron (as Fe-Dissolved)                             | mg/L   | <0.08   | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18    |
| 21.     | Iron (as Fe-Suspended)                             | mg/L   | <0.08   | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18    |
| 22.     | Lead (as Pb)                                       | mg/L   | <0.008  | Max. 0.01  | IS 3025 (Part 2): 2004                           |
| 23.     | Manganese (as Mn)                                  | mg/L   | <0.02   | Max. 0.1   | IS 3025 (Part 2): 2004                           |
| 24.     | Mercury (as Hg)                                    | mg/L   | <0.0008 | Max. 0.001   | IS 3025 (Part 2): 2004                           |
| 25.     | Selenium (as Se)                                   | mg/L   | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004                           |
| 26.     | Zinc (as Zn)                                       | mg/L   | <0.05   | Max. 5   | IS 3025 (Part 2): 2004                           |
| 27.     | Nickel (as Ni)                                     | mg/L   | <0.01   | Max. 0.02  | IS 3025 (Part 2): 2004                           |
| 28.     | Barium (as Ba)                                     | mg/L   | <0.1    | Max. 0.7   | IS 3025 (Part 2): 2004                           |
| 29.     | Sodium (as Na)                                     | mg/L   | 1.2     | -  | IS 3025 (Part 45): 1993, Reaffirmed 2009, Amds.1 |
| 30.     | Potassium (as K)                                   | mg/L   | <0.1    | -  | IS 3025 (Part 45): 1993, Reaffirmed 2009         |

*Report No. 0112 cont...*

| Sr. No.                         | Parameter                               | Unit   | Result | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference   |
|---------------------------------|---|--------|--------|--|--|
| 31.                             | Chloride (as Cl)                        | mg/L   | 4.5    | Max. 250   | IS 3025 (Part 32): 1988, Reaffirmed 2009                               |
| 32.                             | Sulphate (as SO <sub>4</sub> )          | mg/L   | <1     | Max. 200   | IS 3025 (Part 24): 1986, Reaffirmed 2009                               |
| 33.                             | Fluoride (as F)                         | mg/L   | <0.05  | Max. 1   | APHA, 22 <sup>nd</sup> Ed. 2012, 4500-F-, D, 4-87                      |
| 34.                             | Phosphate (as P)                        | mg/L   | <0.03  | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 4500 P, E, 4-155                      |
| 35.                             | Nitrate (as NO <sub>3</sub> )           | mg/L   | <0.5   | Max. 45  | APHA, 22 <sup>nd</sup> Ed. 2012, 4500-NO <sub>3</sub> , E-4-125        |
| 36.                             | Dissolved Silica (as SiO <sub>2</sub> ) | mg/L   | 2.23   | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 4500-SiO <sub>2</sub> , D, 4-169      |
| 37.                             | Hydrogen Sulphide (as H <sub>2</sub> S) | mg/L   | <0.08  | -  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-S <sup>2</sup> , C-4-175, F-4-178 |
| 38.                             | Carbon Dioxide                          | mg/L   | <0.4   | -  | APHA, 22 <sup>nd</sup> Ed. 2012, 4500- CO <sub>2</sub> -C, 4-31        |
| 39.                             | Permanganate Value at 25 <sup>o</sup> C | mg/L   | <0.1   | -  | IS 3025 (Part 63): 2007  |
| <b>Microbiological Analysis</b> |   |        |        |  |  |
| 40.                             | Total Coliforms                         | /100mL | Absent | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-D, 9-73                           |
| 41.                             | E. coli                                 | /100mL | Absent | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-G, 9-76                           |
| <b>Remarks:</b>                 |   |        |        |  |  |

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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**BRANCH MANAGER**



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## Water Sample Analysis Report

|   |   |                                       |   |
|---|---|---------------------------------------|---|
| <b>Report No. :</b> ME-NS0113-160523-SA-RNPL-NASHIK |   | <b>Date:</b> 23.05.2016               |   |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>  |
|   |   |                                       | Your Work Order No. 3320004967<br>Dt. 12.01.2016 Amendment: 1<br>Dt.16.01.2014  |
| <b>Sample Description/Type</b>                      | Ground Water  | <b>Sample Collected by</b>            | Laboratory  |
| <b>Sampling Location</b>                            | Village Kedarapur   | <b>Sample Quantity/Packing</b>        | 5 L X 1 No. Plastic Can<br>1 L X 1 No. Glass Bottle<br>250 mL X 1 No. Sterile Glass Bottle<br>300 mL X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>      | 13.05.2016  |
| <b>Sampling Procedure</b>                           | IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 <sup>nd</sup> Ed. 2012, 1060 B, 1-39              |                                       |   |
| <b>Date of Start of Analysis</b>                    | 13.05.2016  | <b>Date of Completion of Analysis</b> | 21.05.2016  |

| Sr. No.                          | Parameter                              | Unit        | Result    | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference                                    |
|----------------------------------|--|-------------|-----------|--|---|
| <b>Physico-Chemical Analysis</b> |  |             |           |  |   |
| 1.                               | Colour                                 | Hazen Units | 1.2       | Max. 5   | IS 3025 (Part 4): 1983, RA 2006                     |
| 2.                               | Odour                                  | -           | Agreeable | Agreeable  | IS 3025 (Part 5): 1983, RA 2006                     |
| 3.                               | Turbidity                              | N.T.U.      | <0.1      | Max. 1   | IS 3025 (Part 10): 1983, RA 2006                    |
| 4.                               | pH                                     | -           | 8         | 6.5-8.5  | IS 3025 (Part II): 1983, RA 2006                    |
| 5.                               | Suspended Solids                       | mg/L        | <5        | -  | IS 3025 (Part 17): 1984, RA 2006, Amds.1            |
| 6.                               | Total Dissolved Solids                 | mg/L        | 768       | Max. 500   | IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12) |
| 7.                               | Dissolved Oxygen                       | mg/L        | 6.5       | -  | IS 3025 (Part 38): 1989, RA 2009                    |
| 8.                               | Alkalinity (as CaCO <sub>3</sub> )     | mg/L        | 240       | Max. 200   | IS 3025 (Part 23): 1986, RA 2009, Amds.1            |
| 9.                               | Total Hardness (as CaCO <sub>3</sub> ) | mg/L        | 376       | Max. 200   | IS 3025 (Part 21): 1983, RA 2006                    |
| 10.                              | Calcium (as Ca)                        | mg/L        | 68.9      | Max. 75  | IS 3025 (Part 40): 1991, RA 2009, Amds.1            |
| 11.                              | Magnesium (as Mg)                      | mg/L        | 49.6      | Max. 30  | IS 3025 (Part 46): 1994, RA 2009, Amds.2            |
| 12.                              | Aluminium (as Al)                      | mg/L        | <0.025    | Max. 0.03  | IS 3025 (Part 55): 2003, RA 2009                    |

*Report No.0113 cont...*

| Sr. No.                         | Parameter  | Unit        | Result  | Acceptable Limit for Drinking Water as per IS 10500:2012 | Method Reference  |
|---------------------------------|--|-------------|---------|--|---|
| 13.                             | Arsenic (as As)  | mg/L        | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 14.                             | Cadmium (as Cd)  | mg/L        | <0.002  | Max. 0.003   | IS 3025 (Part 2): 2004  |
| 15.                             | Chromium (as Cr)   | mg/L        | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 16.                             | Copper (as Cu)   | mg/L        | <0.02   | Max. 0.05  | IS 3025 (Part 2): 2004  |
| 17.                             | Iron (as Fe)   | mg/L        | <0.08   | Max. 0.3   | APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18                        |
| 18.                             | Lead (as Pb)   | mg/L        | <0.008  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 19.                             | Manganese (as Mn)  | mg/L        | <0.02   | Max. 0.1   | IS 3025 (Part 2): 2004  |
| 20.                             | Mercury (as Hg)  | mg/L        | <0.0008 | Max. 0.001   | IS 3025 (Part 2): 2004  |
| 21.                             | Selenium (as Se)   | mg/L        | <0.005  | Max. 0.01  | IS 3025 (Part 2): 2004  |
| 22.                             | Zinc (as Zn)   | mg/L        | 0.104   | Max. 5   | IS 3025 (Part 2): 2004  |
| 23.                             | Boron (as B)   | mg/L        | 0.80    | Max. 0.5   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-B-<br>B, 4-25                  |
| 24.                             | Chloride (as Cl)   | mg/L        | 159     | Max. 250   | IS 3025 (Part 32): 1988,<br>Reaffirmed 2009                         |
| 25.                             | Sulphate (as SO <sub>4</sub> )                           | mg/L        | 88.5    | Max. 200   | IS 3025 (Part 24): 1986,<br>Reaffirmed 2009                         |
| 26.                             | Fluoride (as F)  | mg/L        | <0.05   | Max. 1   | APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-<br>F-, D, 4-87              |
| 27.                             | Nitrate (as NO <sub>3</sub> )                            | mg/L        | 13.3    | Max. 45  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-<br>NO <sub>3</sub> , B -4-122 |
| 28.                             | Cyanide (as CN)  | mg/L        | <0.001  | Max. 0.05  | APHA 22 <sup>nd</sup> Ed. 2012, 4500-<br>CN, C & E, 4-41 & 4-43     |
| 29.                             | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L        | <0.001  | Max. 0.001   | APHA 22 <sup>nd</sup> Ed. 2012, 5530-<br>B & C, 5-44 & 5-47         |
| 30.                             | Mineral Oil  | mg/L        | <0.005  | Max. 0.5   | IS 3025 (Part 39): 1991,<br>Reaffirmed 2009, Amds.1                 |
| <b>Microbiological Analysis</b> |  |             |         |  |   |
| 31.                             | Total Coliforms  | MPN /100 mL | 170     | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-B,<br>9-66                     |
| 32.                             | <i>E. coli</i>   | MPN /100 mL | Absent  | Not Detectable   | APHA 22 <sup>nd</sup> Ed. 2012, 9221-G,<br>9-76                     |
| <b>Remarks:</b>                 |  |             |         |  |   |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



Note:

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# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Noise Monitoring Report

|  |   |
|--|---|
| <b>Name and Address of Customer</b>                | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |
| <b>Date of Sampling</b> – 12.05.2016 to 13.05.2016 |   |

| Sr. No.                     | Location          | Time                                 | Sound Level dB(A)<br>Fast Response |
|-----------------------------|-------------------|--------------------------------------|------------------------------------|
| 1.                          | Near Weigh Bridge | 11.40 h                              | 68                                 |
|                             |                   | 23.00 h                              | 55                                 |
| 2.                          | Near RNPL Office  | 12.20 h                              | 67                                 |
|                             |                   | 23.30 h                              | 54                                 |
| 3.                          | Near Boiler House | 13.00 h                              | 71                                 |
|                             |                   | 23.55 h                              | 60                                 |
| <b>Noise Level Standard</b> |                   |                                      |                                    |
| <b>Area Code</b>            | <b>Area Type</b>  | <b>Limit in dB(A) weighted scale</b> |                                    |
|                             |                   | <b>Day</b>                           | <b>Night</b>                       |
| A                           | Industrial        | 75                                   | 70                                 |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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**BRANCH MANAGER**

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

## Soil Sample Analysis Report

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| <b>Report No. :</b> ME-NS0116-160519-SA-RNPL-NASHIK |   | <b>Date:</b> 19.05.2016               |  |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. |                                       | <b>Order Reference</b>   |
|   |   |                                       | Your Work Order No.<br>3320004967 Dt. 12.01.2016<br>Amendment: 1 Dt.16.01.2014 |
| <b>Sample Description/Type</b>                      | Soil  | <b>Sample Collected by</b>            | Laboratory   |
| <b>Sampling Location</b>                            | Musalgaon   | <b>Sample Quantity/Packing</b>        | 1 kg X 1 No. Plastic Bag   |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>      | 13.05.2016   |
| <b>Date of Start of Analysis</b>                    | 14.05.2016  | <b>Date of Completion of Analysis</b> | 18.05.2016   |

| Sr. No. | Parameter  | Unit     | Result | Method Reference               |
|---------|--|----------|--------|--------------------------------|
| 1.      | Texture  | -        | Sandy  | WLII Sec. B4, Page No. 7       |
| 2.      | Moisture   | %        | 3.78   | WLII Sec. B2, Page No. 6       |
| 3.      | pH (1:5 Suspension )                             | -        | 8.4    | WLII Sec. B4, Page No. 9       |
| 4.      | Electrical Conductivity (1:5 Suspension at 25°C) | mmho/cm  | 0.341  | WLII Sec. B5, Page No. 9       |
| 5.      | Organic Carbon                                   | %        | 2.78   | WLII Sec. B7, Page No. 10      |
| 6.      | Available Nitrogen (as N)                        | kg/ha    | 174    | FAO Sec. III.11, Page No. 145  |
| 7.      | Available Phosphorus (as P)                      | kg/ha    | 83.6   | FAO Sec. III.12-1, Page No.157 |
| 8.      | Available Potassium (as K)                       | kg/ha    | 212    | FAO Sec. III.8-1, Page No. 115 |
| 9.      | Available Magnesium                              | mg/kg    | 363    | FAO Sec. III.8-1, Page No. 115 |
| 10.     | Available Calcium                                | mg/kg    | 1951   | FAO Sec. III.8-1, Page No. 115 |
| 11.     | Cation Exchange Capacity                         | meq/100g | 45.3   | FAO Sec. III.7-2, Page No. 104 |

### Remarks:

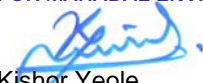
**Note-** All results are on air dry basis.

**WLII-** Wildlife Institute of India.

**FAO-** Food & Agriculture Organization, United Nations.

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole

BRANCH MANAGER



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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)  
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## Soil Sample Analysis Report

|   |   |   |                          |
|---|---|---|--------------------------|
| <b>Report No. :</b> ME-NS0117-160519-SA-RNPL-NASHIK |   | <b>Date:</b> 19.05.2016   |                          |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. | <b>Order Reference</b>  |                          |
|   |   | Your Work Order No.<br>3320004967 Dt.<br>12.01.2016 Amendment: 1<br>Dt.16.01.2014 |                          |
| <b>Sample Description/Type</b>                      | Soil  | <b>Sample Collected by</b>  | Laboratory               |
| <b>Sampling Location</b>                            | Kedarpur  | <b>Sample Quantity/Packing</b>  | 1 kg X 1 No. Plastic Bag |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>  | 13.05.2016               |
| <b>Date of Start of Analysis</b>                    | 14.05.2016  | <b>Date of Completion of Analysis</b>   | 18.05.2016               |

| Sr. No. | Parameter   | Unit     | Result | Method Reference               |
|---------|---|----------|--------|--------------------------------|
| 1.      | Texture   | -        | Sandy  | WLII Sec. B4, Page No. 7       |
| 2.      | Moisture  | %        | 3.81   | WLII Sec. B2, Page No. 6       |
| 3.      | pH (1:5 Suspension )  | -        | 8.3    | WLII Sec. B4, Page No. 9       |
| 4.      | Electrical Conductivity (1:5 Suspension at 25 <sup>0</sup> C) | mmho/cm  | 0.485  | WLII Sec. B5, Page No. 9       |
| 5.      | Organic Carbon  | %        | 2.01   | WLII Sec. B7, Page No. 10      |
| 6.      | Available Nitrogen (as N)                                     | kg/ha    | 168    | FAO Sec. III.11, Page No. 145  |
| 7.      | Available Phosphorus (as P)                                   | kg/ha    | 116    | FAO Sec. III.12-1, Page No.157 |
| 8.      | Available Potassium (as K)                                    | kg/ha    | 293    | FAO Sec. III.8-1, Page No. 115 |
| 9.      | Available Magnesium   | mg/kg    | 97     | FAO Sec. III.8-1, Page No. 115 |
| 10.     | Available Calcium   | mg/kg    | 2055   | FAO Sec. III.8-1, Page No. 115 |
| 11.     | Cation Exchange Capacity                                      | meq/100g | 42.5   | FAO Sec. III.7-2, Page No. 104 |

**Remarks:**

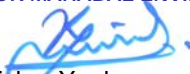
**Note-** All results are on air dry basis.

**WLII-** Wildlife Institute of India.

**FAO-** Food & Agriculture Organization, United Nations.

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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## Soil Sample Analysis Report

|   |   |   |                          |
|---|---|---|--------------------------|
| <b>Report No. :</b> ME-NS0118-160519-SA-RNPL-NASHIK |   | <b>Date:</b> 19.05.2016   |                          |
| <b>Name and Address of Customer</b>                 | <b>RattanIndia Nasik Power Ltd.</b><br>(formerly known as Indiabulls Realtech Ltd.),<br>A-1 Additional MIDC Musalgaon,<br>Tal- Sinnar, Dist- Nasik. | <b>Order Reference</b>  |                          |
|   |   | Your Work Order No.<br>3320004967 Dt.<br>12.01.2016 Amendment: 1<br>Dt.16.01.2014 |                          |
| <b>Sample Description/Type</b>                      | Soil  | <b>Sample Collected by</b>  | Laboratory               |
| <b>Sampling Location</b>                            | Gulvanch  | <b>Sample Quantity/Packing</b>  | 1 kg X 1 No. Plastic Bag |
| <b>Date of Sampling</b>                             | 13.05.2016  | <b>Date of Receipt of Sample</b>  | 13.05.2016               |
| <b>Date of Start of Analysis</b>                    | 14.05.2016  | <b>Date of Completion of Analysis</b>   | 18.05.2016               |

| Sr. No. | Parameter  | Unit     | Result | Method Reference               |
|---------|--|----------|--------|--------------------------------|
| 1.      | Texture  | -        | Sandy  | WLII Sec. B4, Page No. 7       |
| 2.      | Moisture   | %        | 3.85   | WLII Sec. B2, Page No. 6       |
| 3.      | pH (1:5 Suspension )                             | -        | 8.3    | WLII Sec. B4, Page No. 9       |
| 4.      | Electrical Conductivity (1:5 Suspension at 25°C) | mmho/cm  | 0.339  | WLII Sec. B5, Page No. 9       |
| 5.      | Organic Carbon                                   | %        | 1.30   | WLII Sec. B7, Page No. 10      |
| 6.      | Available Nitrogen (as N)                        | kg/ha    | 178    | FAO Sec. III.11, Page No. 145  |
| 7.      | Available Phosphorus (as P)                      | kg/ha    | 80.4   | FAO Sec. III.12-1, Page No.157 |
| 8.      | Available Potassium (as K)                       | kg/ha    | 2287   | FAO Sec. III.8-1, Page No. 115 |
| 9.      | Available Magnesium                              | mg/kg    | 269    | FAO Sec. III.8-1, Page No. 115 |
| 10.     | Available Calcium                                | mg/kg    | 1582   | FAO Sec. III.8-1, Page No. 115 |
| 11.     | Cation Exchange Capacity                         | meq/100g | 53.5   | FAO Sec. III.7-2, Page No. 104 |

### Remarks:

**Note-** All results are on air dry basis.

**WLII-** Wildlife Institute of India.

**FAO-** Food & Agriculture Organization, United Nations.

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor Yeole

**BRANCH MANAGER**



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Page 3 of 3

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