



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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0314-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near RNPL Office	Sample Quantity/Packing	PM ₁₀ , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 6 No. Plastic Bottle NO ₂ : 30 mL X 6 No. Plastic Bottle NH ₃ : 10 mL X24 No. Plastic Bottle CO: 1 No. Plastic Bulb O ₃ : 10 mL X 1 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 6 No. Mercury: 30 mL X 6 No. Glass Bottle
Date of Sampling	09.02.2016 to 10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	As per method reference		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Meteorological Data				
Average Wind velocity 0.84 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	71	23	31	18
Location : Near RNPL Office		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	5.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	3.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0314 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 ₁₀	µg/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 2.5µm) or PM _{2.5}	µg/m ³	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31
Lead (Pb)	µg/m ³	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Carbon Monoxide (CO)	mg/m ³	<0.5	04	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35
Benzene (C ₆ H ₆)	µg/m ³	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40
Arsenic (As)	ng/m ³	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Nickel (Ni)	ng/m ³	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Mercury	µg/m ³	<0.06	-	EPA/625/R-96/010 a Compendium Method 10-3.4
<p>Remarks: 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, PM₁₀, 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</p>				

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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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0313-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Boiler House	Sample Quantity/Packing	PM ₁₀ , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 6 No. Plastic Bottle NO ₂ : 30 mL X 6 No. Plastic Bottle NH ₃ : 10 mL X24 No.Plastic Bottle CO: 1 No. Plastic Bulb O ₃ : 10 mL X 1 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 6 No. Mercury: 30 mL X 6 No. Glass Bottle
Date of Sampling	09.02.2016 to 10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	As per method reference		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Meteorological Data				
Average Wind velocity 0.84 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	71	23	31	18
Location : Near Boiler House		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	5.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	4.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0313 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 ₁₀	µg/m ³	88	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 _{2.5}	µg/m ³	29	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31
Lead (Pb)	µg/m ³	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Carbon Monoxide (CO)	mg/m ³	<0.5	04	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35
Benzene (C ₆ H ₆)	µg/m ³	2.88	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40
Arsenic (As)	ng/m ³	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Nickel (Ni)	ng/m ³	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Mercury	µg/m ³	<0.06	-	EPA/625/R-96/010 a Compendium Method 10-3.4
<p>Remarks: 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, PM₁₀, 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</p>				

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Ambient Air Quality Monitoring Report

Report No. : ME-NS0315-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Weigh Bridge	Sample Quantity/Packing	PM ₁₀ , B(a)P, Ni, As, Pb: Filter Paper 1 X 3 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 6 No. Plastic Bottle NO ₂ : 30 mL X 6 No. Plastic Bottle NH ₃ : 10 mL X24 No.Plastic Bottle CO: 1 No. Plastic Bulb O ₃ : 10 mL X 1 No. Plastic Bottle Benzene: Charcoal Tubes: 1 X 6 No. Mercury: 30 mL X 6 No. Glass Bottle
Date of Sampling	09.02.2016 to 10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	As per method reference		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Meteorological Data				
Average Wind velocity 0.84 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
	71	23	31	18
Location : Near Weigh Bridge		Duration of Survey : 24 hours		
Parameter	Unit	Result	# National Ambient Air Quality Standards (NAAQS) (Industrial, Residential, Rural and other Area)	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	5.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	4.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0315 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 ₁₀	µg/m ³	92	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 _{2.5}	µg/m ³	33	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31
Lead (Pb)	µg/m ³	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Carbon Monoxide (CO)	mg/m ³	<0.5	04	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.35
Benzene (C ₆ H ₆)	µg/m ³	<1	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (BaP) (Particulate phase only)	ng/m ³	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.40
Arsenic (As)	ng/m ³	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Nickel (Ni)	ng/m ³	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Mercury	µg/m ³	<0.06	-	EPA/625/R-96/010 a Compendium Method 10-3.4
<p>Remarks: 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, PM₁₀, 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</p>				

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Water Sample Analysis Report

Report No. : ME-NS0311-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.	Order Reference	
		Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014	
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village 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 300 mL X 1 No. Glass Bottle
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
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	-	7.9	6.5-8.5	IS 3025 (Part II): 1983, RA 2006
5.	Suspended Solids	mg/L	8	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1164	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 ₃)	mg/L	253	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	636	Max. 200	IS 3025 (Part 21): 1983, RA 2006
10.	Calcium (as Ca)	mg/L	78.5	Max. 75	IS 3025 (Part 40): 1991, RA 2009, Amds.1
11.	Magnesium (as Mg)	mg/L	102	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. 0311 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 nd 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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	1.02	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Chloride (as Cl)	mg/L	310	Max. 250	IS 3025 (Part 32): 1988, Reaffirmed 2009
25.	Sulphate (as SO ₄)	mg/L	153	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	1.1	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	66.2	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
28.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-41 & 4-43
29.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd 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
Microbiological Analysis					
31.	Total Coliforms	MPN /100 mL	40	Not Detectable	APHA 22 nd Ed. 2012, 9221-B, 9-66
32.	<i>E. coli</i>	MPN /100 mL	9.2	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Water Sample Analysis Report

Report No. : ME-NS0317-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.	Order Reference	
		Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014	
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village 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 300 mL X 1 No. Glass Bottle
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
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	-	7.5	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	852	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.8	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	198	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	602	Max. 200	IS 3025 (Part 21): 1983, RA 2006
10.	Calcium (as Ca)	mg/L	122	Max. 75	IS 3025 (Part 40): 1991, RA 2009, Amds.1
11.	Magnesium (as Mg)	mg/L	72.2	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. 0317 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	0.091	Max. 0.3	APHA 22 nd 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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	0.47	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Chloride (as Cl)	mg/L	220	Max. 250	IS 3025 (Part 32): 1988, Reaffirmed 2009
25.	Sulphate (as SO ₄)	mg/L	126	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	1.05	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	66.2	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
28.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-41 & 4-43
29.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd 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
Microbiological Analysis					
31.	Total Coliforms	MPN /100 mL	39	Not Detectable	APHA 22 nd Ed. 2012, 9221-B, 9-66
32.	<i>E. coli</i>	MPN /100 mL	14	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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

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

Water Sample Analysis Report

Report No. : ME-NS0316-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.	Order Reference	
		Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014	
Sample Description/Type	Ground Water	Sample Collected by	Laboratory
Sampling Location	Village Gulvanch	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 300 mL X 1 No. Glass Bottle
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	IS 1622:1981, Reaffirmed 2009; IS 3025 (Part 1): 1987, Reaffirmed 1987, Reaffirmed 1998 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
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	-	7.3	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.	Total Dissolved Solids	mg/L	1276	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	5.8	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	364	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	1052	Max. 200	IS 3025 (Part 21): 1983, RA 2006
10.	Calcium (as Ca)	mg/L	204	Max. 75	IS 3025 (Part 40): 1991, RA 2009, Amds.1
11.	Magnesium (as Mg)	mg/L	132	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. 0316 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	0.091	Max. 0.3	APHA 22 nd 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	<0.05	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	5.34	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B-B, 4-25
24.	Chloride (as Cl)	mg/L	410	Max. 250	IS 3025 (Part 32): 1988, Reaffirmed 2009
25.	Sulphate (as SO ₄)	mg/L	168	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	1.05	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	66.2	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
28.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-41 & 4-43
29.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	<0.001	Max. 0.001	APHA 22 nd 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
Microbiological Analysis					
31.	Total Coliforms	MPN /100 mL	47	Not Detectable	APHA 22 nd Ed. 2012, 9221-B, 9-66
32.	<i>E. coli</i>	MPN /100 mL	14	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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

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

Water Sample Analysis Report

Report No. : ME-NS0312-160216-SA-RNPL-NASHIK		Date: 16.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.	Order Reference	
		Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014	
Sample Description/Type	Water	Sample Collected by	Laboratory
Sampling Location	RNPL Pantry Cooler Outlet	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 300mL X 1 No. Glass Bottle
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Sampling Procedure	IS 1622:1981,Reaffirmed 2009; IS 3025 (Part 1):1987, Reaffirmed 2003 & APHA 22 nd Ed. 2012,1060 B, 1-39, 9060 A, 9-35		
Date of Start of Analysis	10.02.2016	Date of Completion of Analysis	15.02.2016

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
Physico-Chemical Analysis					
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	-	6.8	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.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	<1	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
7.	Chemical Oxygen Demand	mg/L	<4	-	APHA, 22 nd Ed. 2012, 5220-B, 5-17
8.	Oil & Grease	mg/L	<1	-	APHA, 22 nd Ed. 2012, 5520-B, 5-40
9.	Total Dissolved Solids	mg/L	12	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.2	-	IS 3025 (Part 38): 1989, Reaffirmed 2009

Page 1 of 3



Report No. 0312 cont...

Sr. No.	Parameter	Result	Unit	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	6	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	8	Max. 200	IS 3025 (Part 21): 1983, RA 2006
14.	Calcium (as Ca)	mg/L	<0.4	Max. 75	IS 3025 (Part 40): 1991, RA 2009, Amds.1
15.	Magnesium (as Mg)	mg/L	1.8	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 nd Ed. 2012, 3111-B, 3-18
21.	Iron (as Fe-Suspended)	mg/L	<0.08	-	APHA, 22 nd 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. 0312 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	3.5	Max. 250	IS 3025 (Part 32): 1988, Reaffirmed 2009
32.	Sulphate (as SO ₄)	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	0.52	Max. 1	APHA, 22 nd Ed. 2012, 4500-F-, D, 4-87
34.	Phosphate (as P)	mg/L	<0.03	-	APHA, 22 nd Ed. 2012, 4500 P, E, 4-155
35.	Nitrate (as NO ₃)	mg/L	<0.5	Max. 45	APHA, 22 nd Ed. 2012, 4500-NO ₃ , E-4-125
36.	Dissolved Silica (as SiO ₂)	mg/L	0.35	-	APHA, 22 nd Ed. 2012, 4500-SiO ₂ , D, 4-169
37.	Hydrogen Sulphide (as H ₂ S)	mg/L	<0.08	-	APHA 22 nd Ed. 2012, 4500-S ² , C-4-175, F-4-178
38.	Carbon Dioxide	mg/L	1.76	-	APHA, 22 nd Ed. 2012, 4500- CO ₂ -C, 4-31
39.	Permanganate Value at 25 ^o C	mg/L	<0.1	-	IS 3025 (Part 63): 2007
Microbiological Analysis					
40.	Total Coliforms	/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
41.	E. coli	/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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

Noise Monitoring Report

Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.
Date of Sampling – 09.02.2016 to 10.02.2016	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	12.00 h	72
		24.10 h	64
2.	Near RNPL Office	12.40 h	70
		24.30 h	60
3.	Near Boiler House	13.10 h	73
		01.10 h	65
Noise Level Standard			
Area Code	Area Type	Limit in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-END-

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

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

Soil Sample Analysis Report

Report No. : ME-NS0318-160214-SA-RNPL-NASHIK		Date: 14.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Musalgaon	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Date of Start of Analysis	11.02.2016	Date of Completion of Analysis	13.02.2016

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	WLII Sec. B4, Page No. 7
2.	Moisture	%	4.01	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.0	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mmho/cm	0.173	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.59	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	210	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	142	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	218	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	206	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	577	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	31.3	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.

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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



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

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

Soil Sample Analysis Report

Report No. : ME-NS0319-160214-SA-RNPL-NASHIK		Date: 14.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Kedarpur	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Date of Start of Analysis	11.02.2016	Date of Completion of Analysis	13.02.2016

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)	-	8.1	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25 ^o C)	mmho/cm	0.105	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.69	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	194	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	92.5	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	331	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	121	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	657	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	50.8	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-

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

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

Soil Sample Analysis Report

Report No. : ME-NS0320-160214-SA-RNPL-NASHIK		Date: 14.02.2016	
Name and Address of Customer	RattanIndia Nasik Power Ltd. (formerly known as Indiabulls Realtech Ltd.), A-1 Additional MIDC Musalgaon, Tal- Sinnar, Dist- Nasik.		Order Reference
			Your Work Order No. 3320004967 Dt. 12.01.2016 Amendment: 1 Dt.16.01.2014
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Gulvanch	Sample Quantity/Packing	1 kg X 1 No. Plastic Bag
Date of Sampling	10.02.2016	Date of Receipt of Sample	10.02.2016
Date of Start of Analysis	11.02.2016	Date of Completion of Analysis	13.02.2016

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	WLII Sec. B4, Page No. 7
2.	Moisture	%	4.2	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	0.116	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.92	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	223	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	130	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	279	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	156	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	435	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	42.0	FAO Sec. III.7-2, Page No. 104

Remarks:

Note- All results are on air dry basis.

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Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com