



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

Ambient Air Quality Monitoring Report

Report No. : ME-NS0035-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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 X 24 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	11.05.2015 to 12.05.2015	Date of Receipt of Sample	12.05.2015
Sampling Procedure	As per method reference		
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	16.05.2015

Meteorological Data				
Average Wind velocity 1.20 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		53	23	41
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	6.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	5.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0035 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	84	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	18	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	3.2	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	0.5	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:

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

Report No. : ME-NS0034-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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	11.05.2015 to 12.05.2015	Date of Receipt of Sample	12.05.2015
Sampling Procedure	As per method reference		
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	16.05.2015

Meteorological Data				
Average Wind velocity 1.20 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		53	23	41
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	6.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	4.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

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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	21	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	0.66	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	3.3	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	4.0	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


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Ambient Air Quality Monitoring Report

Report No. : ME-NS0033-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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 X 24 No. Plastic Bottle CO: 1 No. Plastic Bulb 1 No. 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	110.05.2015 to 12.05.2015	Date of Receipt of Sample	12.05.2015
Sampling Procedure	As per method reference		
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	16.05.2015

Meteorological Data				
Average Wind velocity 1.20 km/h	Relative Humidity %		Temperature °C	
	Max.	Min.	Max.	Min.
		53	23	41
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	6.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1
Nitrogen Dioxide (NO ₂)	µg/m ³	4.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7

Report No. 0033 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	96	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	19	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	0.68	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	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	0.4	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.48
Nickel (Ni)	ng/m ³	3.8	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-NS0029-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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 P.O. No. 3320001083 Dtd. 18.11.2011,(Amendment Dtd. 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	12.05.2015	Date of Receipt of Sample	12.05.2015
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	12.05.2015	Date of Completion of Analysis	16.05.2015

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	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, Reaffirmed 2006
3.	Turbidity	N.T.U.	<0.1	Max. 1	IS 3025 (Part 8): 1984, Reaffirmed 2003
4.	pH	-	8.2	6.5-8.5	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	Suspended Solids	mg/L	<5	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	<1	-	IS 3025 (Part 17): 1984, Reaffirmed 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	18	Max. 500	IS 3025 (Part 16): 1984, Reaffirmed 2006, Ed. 2.1 (1999-12)
10.	Dissolved Oxygen	mg/L	7.1	-	IS 3025 (Part 38): 1989, Reaffirmed 2009



Report No. 0029 cont...

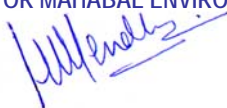
Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
11.	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	<1	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
12.	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	15	-	IS 3025 (Part 23): 1986, Reaffirmed 2009, Amds.1
13.	Total Hardness (as CaCO ₃)	mg/L	16	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
14.	Calcium (as Ca)	mg/L	2.4	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	2.44	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
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	0.026	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	-	IS 3025 (Part 2): 2004
28.	Barium (as Ba)	mg/L	<0.1	-	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. 0029 cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking Water as per IS 10500:2012	Method Reference
31.	Chloride (as Cl)	mg/L	1.5	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
32.	Sulphate (as SO ₄)	mg/L	<1	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
33.	Fluoride (as F)	mg/L	<0.05	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	1.2	-	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	0.88	-	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	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
41.	E. coli	MPN/100mL	Absent	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76
Remarks:					

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Water Sample Analysis Report

Report No. : ME-NS0028-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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 P.O. No. 3320001083 Dtd.18.11.2011, (Amendment Dtd.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	12.05.2015	Date of Receipt of Sample	12.05.2015
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	12.05.2015	Date of Completion of Analysis	16.05.2015

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	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	<0.1	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.9	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
5.	Suspended Solids	mg/L	7	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1088	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	7.2	-	IS 3025 (Part 38): 1989, RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	264	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	522	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	71.3	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	84.6	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61

Report No. 0028 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	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
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	<0.1	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B -B, 4-25
24.	Chloride (as Cl)	mg/L	274	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
25.	Sulphate (as SO ₄)	mg/L	305	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	0.81	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	27.6	Max. 45	APHA 22 nd Ed. 2012, 4500-NO ₃ , B -4-122
29.	Cyanide (as CN)	mg/L	<0.001	Max. 0.05	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
30.	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
31.	Mineral Oil	mg/L	<0.005	Max. 0.5	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Microbiological Analysis					
32.	Total Coliforms	/100 mL	24	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
33.	<i>E. coli</i>	/100 mL	14	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Water Sample Analysis Report

Report No. : ME-NS0027-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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 P.O. No. 3320001083 Dtd.18.11.2011, (Amendment Dtd.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	12.05.2015	Date of Receipt of Sample	12.05.2015
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	12.05.2015	Date of Completion of Analysis	16.05.2015

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	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Turbidity	N.T.U.	0.4	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.7	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ - B,4-92
5.	Suspended Solids	mg/L	12	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	878	Max. 500	IS 3025 (Part 16): 1984, RA 2006, Ed. 2.1 (1999-12)
7.	Dissolved Oxygen	mg/L	6.9	-	IS 3025 (Part 38): 1989,RA 2009
8.	Alkalinity (as CaCO ₃)	mg/L	300	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	514	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	85.8	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	72.9	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61

Report No. 0027 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 ⁺⁶)	mg/L	0.02	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
16.	Copper (as Cu)	mg/L	<0.02	Max. 0.05	IS 3025 (Part 2): 2004
17.	Iron (as Fe)	mg/L	0.25	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	0.16	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 nd Ed. 2012, 4500-B -B, 4-25
24.	Chloride (as Cl)	mg/L	204	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
25.	Sulphate (as SO ₄)	mg/L	186	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	0.22	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	26.4	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, 4-39 & 4-44
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	17	Not Detectable	APHA 22 nd Ed. 2012, 9221-D, 9-73
32.	<i>E .coli</i>	MPN /100 mL	11	Not Detectable	APHA 22 nd Ed. 2012, 9221-G, 9-76

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Water Sample Analysis Report

Report No. : ME-NS0026-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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 P.O. No. 3320001083 Dtd.18.11.2011,(Amendment Dtd.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 300 mL X 1 No. Glass Bottle
Date of Sampling	12.05.2015	Date of Receipt of Sample	12.05.2015
Sampling Procedure	IS 3025 (Part 1): 1987, RA 2003 & APHA 22 nd Ed. 2012, 1060 B, 1-39		
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	16.05.2015

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	APHA 22 nd Ed. 2012, 2120-B, 2-26
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5): 1983, RA 2006
3.	Turbidity	N.T.U.	<0.1	Max. 1	APHA 22 nd Ed. 2012, 2130-B, 2-13
4.	pH	-	7.59	6.5-8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ - B, 4-92
5.	Suspended Solids	mg/L	5	-	IS 3025 (Part 17): 1984, RA 2006, Amds.1
6.	Total Dissolved Solids	mg/L	1476	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	316	Max. 200	IS 3025 (Part 23): 1986, RA 2009, Amds.1
9.	Total Hardness (as CaCO ₃)	mg/L	1086	Max. 200	APHA 22 nd Ed. 2012, 2340 C, 2-44
10.	Calcium (as Ca)	mg/L	198	Max. 75	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-65
11.	Magnesium (as Mg)	mg/L	144	Max. 30	APHA 22 nd Ed. 2012, 3500-Mg, B, 3-84
12.	Aluminium (as Al)	mg/L	<0.025	Max. 0.03	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61

Report No. 0026 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	-	APHA 22 nd Ed. 2012, 3500 Cr-B, 3-69
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	0.07	Max. 5	IS 3025 (Part 2): 2004
23.	Boron (as B)	mg/L	4.15	Max. 0.5	APHA 22 nd Ed. 2012, 4500-B -B, 4-25
24.	Chloride (as Cl)	mg/L	479	Max. 250	APHA 22 nd Ed. 2012, 4500-Cl, B, 4-72
25.	Sulphate (as SO ₄)	mg/L	368	Max. 200	IS 3025 (Part 24): 1986, Reaffirmed 2009
26.	Fluoride (as F)	mg/L	0.41	Max. 1	APHA 22 nd Ed. 2012, 4500-F-, D, 4-87
27.	Nitrate (as NO ₃)	mg/L	27.0	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, 4-39 & 4-44
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

-END-

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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 – 11.05.2015 to 12.05.2015	

Sr. No.	Location	Time	Sound Level dB(A) Fast Response
1.	Near Weigh Bridge	11.10 h	69
		22.00 h	54
2.	Near RNPL Office	11.30 h	68
		22.30 h	52
3.	Near Boiler House	12.00 h	70
		23.00 h	57
Noise Level Standard			
Area Code	Area Type	Limit in dB(A) weighted scale	
		Day	Night
A	Industrial	75	70

-----END-----

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Soil Sample Analysis Report

Report No. : ME-NS0030-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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	12.05.2015	Date of Receipt of Sample	12.05.2015
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	15.05.2015

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	WLII Sec. B4, Page No. 7
2.	Moisture	%	2.40	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.5	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mmho/cm	0.172	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.62	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	208	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	55.7	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	383	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	60.8	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	320	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	35.9	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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Soil Sample Analysis Report

Report No. : ME-NS0031-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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	12.05.2015	Date of Receipt of Sample	12.05.2015
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	15.05.2015

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	WLII Sec. B4, Page No. 7
2.	Moisture	%	2.3	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.2	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mmho/cm	0.311	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.69	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	198	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	47.2	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	256	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	48.6	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	300	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	43	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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Soil Sample Analysis Report

Report No. : ME-NS0032-150516-SA-RNPL-NASHIK		Date: 16.05.2015	
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. 3520000054 Dt. 18.11.2011 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	12.05.2015	Date of Receipt of Sample	12.05.2015
Date of Start of Analysis	12.05.2015	Date of Completion of Analysis	15.05.2015

Sr. No.	Parameter	Unit	Result	Method Reference
1.	Texture	-	Sandy	WLII Sec. B4, Page No. 7
2.	Moisture	%	1.86	WLII Sec. B2, Page No. 6
3.	pH (1:5 Suspension)	-	8.8	WLII Sec. B4, Page No. 9
4.	Electrical Conductivity (1:5 Suspension at 25°C)	mmho/cm	0.226	WLII Sec. B5, Page No. 9
5.	Organic Carbon	%	0.53	WLII Sec. B7, Page No. 10
6.	Available Nitrogen (as N)	kg/ha	217	FAO Sec. III.11, Page No. 145
7.	Available Phosphorus (as P)	kg/ha	35.7	FAO Sec. III.12-1, Page No.157
8.	Available Potassium (as K)	kg/ha	430	FAO Sec. III.8-1, Page No. 115
9.	Available Magnesium	mg/kg	48.6	FAO Sec. III.8-1, Page No. 115
10.	Available Calcium	mg/kg	280	FAO Sec. III.8-1, Page No. 115
11.	Cation Exchange Capacity	meq/100g	40	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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