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-NG4602-170406-SA-RIPL-AMRAVATI			**Date:** 06.04.2017
Name and address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ambient Air Quality Monitoring	**Sample Collected by**	Laboratory
Sampling Location	1) Near Plant Site Office 2) Terrace of WTP Plant Building 3) Terrace of Bachelor Guest House	**Sample Quantity/Packing**	Filter Paper (PM_{10}): 3 X 3 No. Filter Paper ($PM_{2.5}$): 1 X 3 No. SO_2: 30mL X18 No. PVC Bottle NO_2: 30mL X18 No. PVC Bottle NH_3: 30 mL X18 No. PVC Bottle O_3: 10 mL X 72 No. PVC Bottle 3 X 12 No. Charcoal Tubes 3 X 3 No. Rubber Bladder
Date of Sampling	23.03.2017 & 24.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	As per Method reference		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	30.03.2017

Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (^0C)	
		Max.	Min.	Max.	Min.
2.5 km/h	SE - NW	24	16	40.0	25.0
Location	1) Near Site Office			**Duration of Survey :** 24 hours	

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Sulphur Dioxide (SO_2)	$\mu g/m^3$	11.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	13.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	84	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	$\mu g/m^3$	44	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	$\mu g/m^3$	24.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com

Report No.4602 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide(CO)	mg/m^3	0.93	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu g/m^3$	24.3	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	$\mu g/m^3$	<1	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m^3	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Mercury (as Hg)	$\mu g/m^3$	<0.06	-	Method of analysis of Hg & MoF Japan
Location 2) Terrace of WTP Plant				**Duration of Survey :** 24 hours
Sulphur Dioxide (SO_2)	$\mu g/m^3$	11.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	11.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	82	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	$\mu g/m^3$	38	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	$\mu g/m^3$	23.9	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide(CO)	mg/m^3	0.88	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu g/m^3$	24.7	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	$\mu g/m^3$	<1	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

Report No.4602 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	2) Terrace of WTP Plant			**Duration of Survey :** 24 hours
Mercury (as Hg)	µg/m^3	<0.06	-	Method of analysis of Hg & MoF Japan
Parameter	**Unit**	**Result**	**#NAAQM Standard**	**Method Reference**
Location	3) Terrace of Bachelor Guest House			**Duration of Survey :** 24 hours
Sulphur Dioxide (SO_2)	µg/m^3	9.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	µg/m^3	8.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	µg/m^3	68	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m^3	34	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	µg/m^3	22.9	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34
Lead (as Pb)	µg/m^3	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide(CO)	mg/m^3	0.76	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	µg/m^3	22.6	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	µg/m^3	<1	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Mercury (as Hg)	µg/m^3	<0.06	-	Method of analysis of Hg & MoF Japan

Remarks: N.D. - Not Detected; TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER

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Note:
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Ambient Air Quality Monitoring Report

Report No.: ME-NG4603-170406-SA-RIPL-AMRAVATI			**Date:** 06.04.2017
Name and address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ambient Air Quality Monitoring	**Sample Collected by**	Laboratory
Sampling Location	1) Mr. Manoj Pandagale, House, Village-Wagholi 2) Mr.Rahul Nakade House Village-Dawargaon 3) Ramkirshna Temple, Village-Kapustalani	**Sample Quantity/Packing**	Filter Paper ($PM_{10,}$): 3 X 3 No. Filter Paper ($PM_{2.5}$): 1 X 3 No. SO_2: 30mL X18 No. PVC Bottle NO_2: 30 mLX18 No. PVC Bottle NH_3: 10mL X18 No. PVC Bottle O_3: 10 mL X72 No. PVC Bottle 3 X 12 No. Charcoal Tubes 3 X 3 No. Rubber Bladder
Date of Sampling	24.03.2017 & 25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	30.04.2017

Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (^{0}C)	
		Max.	Min.	Max.	Min.
3.5 km/h	SE – NW	32	18	38.0	22.0

Location :1) Mr. Manoj Pandagale House, Village- Wagholi — **Duration of Survey** 24 hours

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Sulphur Dioxide (SO_2)	$\mu g/m^3$	10.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	11.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	80	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	$\mu g/m^3$	38	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	$\mu g/m^3$	22.9	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34

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Report No.4603 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	$\mu g/m^3$	<0.02	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	0.70	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu g/m^3$	23.4	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	ng/m^3	<1.0	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	$\mu g/m^3$	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Mercury (as Hg)	$\mu g/m^3$	<0.06	-	Method of analysis of Hg & MoF Japan
Location : 2) Mr.Rahul Nakade House Village-Dawargaon				**Duration of Survey** 24 hours
Parameter	**Unit**	**Result**	**#NAAQM Standard**	**Method Reference**
Sulphur Dioxide (SO_2)	$\mu g/m^3$	7.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	10.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	68	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	$\mu g/m^3$	38	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	$\mu g/m^3$	23.9	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	0.70	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu g/m^3$	22.6	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	ng/m^3	<1.0	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	$\mu g/m^3$	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Mercury (as Hg)	$\mu g/m^3$	<0.06	-	Method of analysis of Hg & MoF Japan

Report No.4603 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location : 3) Ramkirshna Temple Vill- Kapustalani				**Duration of Survey** 24 hours
Sulphur Dioxide (SO_2)	$\mu g/m^3$	9.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	11.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	66	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	$\mu g/m^3$	34	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.15-30
Ozone (O_3)	$\mu g/m^3$	23.4	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13,Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	0.82	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH_3)	$\mu g/m^3$	22.8	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	ng/m^3	<1.0	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	$\mu g/m^3$	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Mercury (as Hg)	$\mu g/m^3$	<0.06	-	Method of analysis of Hg & MoF Japan

Remarks: N.D. - Not Detected; TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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Stack Emission Monitoring Report

Report No.: ME-NG4625-170406 SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description /Type	Stack Emission Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Unit No.1	**Sample Quantity/Packing**	Thimble: 1 X 1 No. SO_2: 30 mL X 1No.PVC Bottle NO_X:25 mL X 1No.PVC Bottle Bladder: 1L X 1 No.
Date of Sampling	30.03.2017	**Date of Receipt of Sample**	31.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.04.2017	**Date of Completion of Analysis**	05.04.2017

Stack No.			Unit No.1	
Stack attached to			ESP of Boiler Unit No.1	
Material of construction			M.S.	
Stack height above ground level (Meter)			275.0	
Stack diameter (Meter)			4.6	
Stack shape at top			Round	
Type of fuel			Coal	
Fuel Consumption (t/h)			160	
ESP Fields (28 No's.)			In Service (28 No's)	
Load at the time of monitoring			270 MW	
Parameter	**Unit**	**Result**	**Limit as Per Consent**	**Method Reference**
Flue gas Temperature	^0C	141	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	30.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm^3/h	1330032	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm^3	22	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO_2)	mg/Nm^3	574	-	IS 11255 (Part 2):1985 RA 2003

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Report No 4625 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO_2)	kg/day	18323	52320	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO_X)	mg/Nm^3	169	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO_2)	%	12.2	-	IS 13270:1992, RA 2009
Remarks :				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

MAHABAL ENVIRO ENGINEERS P LTD.

Kishor C. Yeole

BRANCH MANAGER

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Stack Emission Monitoring Report

Report No.: ME-NG4626-170406-SA-RIPL-AMRAVATI			**Date:** 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description /Type	Stack Emission Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Unit No.2	**Sample Quantity/Packing**	Thimble: 1 X 1 No. SO_2: 30 mL X 1No.PVC Bottle NO_X:25 mL X 1No.PVC Bottle Bladder: 1L X 1 No.
Date of Sampling	30.03.2017	**Date of Receipt of Sample**	31.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.04.2017	**Date of Completion of Analysis**	05.04.2017

Stack No.			Unit No.2	
Stack attached to			ESP of Boiler Unit No.2	
Material of construction			M.S.	
Stack height above ground level (Meter)			275.0	
Stack diameter (Meter)			4.6	
Stack shape at top			Round	
Type of fuel			Coal	
Fuel Consumption (t/h)			153	
ESP Fields (28 No's.)			In Service (28 No's)	
Load at the time of monitoring			270 MW	
Parameter	**Unit**	**Result**	**Limit as Per Consent**	**Method Reference**
Flue gas Temperature	^0C	135	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm^3/h	1284078	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm^3	30	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO_2)	mg/Nm^3	588	-	IS 11255 (Part 2):1985 RA 2003

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Report No.4626 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO_2)	kg/day	18121	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO_X)	mg/Nm^3	174	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO_2)	%	12.8	-	IS 13270:1992, RA 2009
Remarks :				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Stack Emission Monitoring Report

Report No.: ME-NG4627-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description /Type	Stack Emission Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Unit No.3	**Sample Quantity/Packing**	Thimble: 1 X 1 No. SO_2: 30 mL X 1No.PVC Bottle NO_X:25 mL X 1No.PVC Bottle Bladder: 1L X 1 No.
Date of Sampling	30.03.2017	**Date of Receipt of Sample**	31.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.04.2017	**Date of Completion of Analysis**	05.04.2017

Stack No.	Unit No.3
Stack attached to	ESP of Boiler Unit No.3
Material of construction	M.S.
Stack height above ground level (Meter)	275.0
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	143
ESP Fields (28 No's.)	In Service (28 No's)
Load at the time of monitoring	240 MW

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	^0C	130	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm^3/h	1300009	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm^3	28	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO_2)	mg/Nm^3	551	-	IS 11255 (Part 2):1985 RA 2003

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Report No.4627 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO_2)	kg/day	17191	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO_X)	mg/Nm^3	152	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO_2)	%	12.2	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG4628-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description /Type	Stack Emission Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Unit No.4	**Sample Quantity/Packing**	Thimble: 1 X 1 No. SO_2: 30 mL X 1No.PVC Bottle NO_X:25 mL X 1No.PVC Bottle Bladder: 1L X 1 No.
Date of Sampling	30.03.2017	**Date of Receipt of Sample**	31.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.04.2017	**Date of Completion of Analysis**	05.04.2017

Stack No.	Unit No.4
Stack attached to	ESP of Boiler Unit No.4
Material of construction	M.S.
Stack height above ground level (Meter)	275.0
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	115
ESP Fields (28 No's.)	In Service (28 No's)
Load at the time of monitoring	180 MW

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	^0C	113	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm^3/h	1311098	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm^3	22	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO_2)	mg/Nm^3	540	-	IS 11255 (Part 2):1985 RA 2003

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Report No.4628 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO_2)	kg/day	16992	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO_X)	mg/Nm^3	159	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO_2)	%	11.8	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG4629-170404-SA-RIPL-AMRAVATI			**Date**: 04.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description /Type	Stack Emission Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Unit No.5	**Sample Quantity/Packing**	Thimble: 1 X 1 No. SO_2: 30 mL X 1No.PVC Bottle NO_X:25 mL X 1No.PVC Bottle Bladder: 1L X 1 No.
Date of Sampling	30.03.2017	**Date of Receipt of Sample**	31.03.2017
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.04.2017	**Date of Completion of Analysis**	05.04.2017

Stack No.	Unit No.5
Stack attached to	ESP of Boiler Unit No.5
Material of construction	M.S.
Stack height above ground level (Meter)	275.0
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	163
ESP Fields (28 No's.)	In Service (28 No's)
Load at the time of monitoring	270 MW

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	^0C	137	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm^3/h	1299545	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm^3	32	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO_2)	mg/Nm^3	586	-	IS 11255 (Part 2):1985 RA 2003

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Report No.4629 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO_2)	kg/day	18277	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO_X)	mg/Nm^3	162	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO_2)	%	12.1	-	IS 13270:1992, RA 2009
Remarks :				

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Water Sample Analysis Report

Report No.: ME-NG4607-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Borewell- Gram Panchayat Digargoan	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	0.8	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.0	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	468	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	18	--	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	N.D.	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	376	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	296	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	48.6	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	22.1	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13.	Nitrate (as NO_3)	mg/L	49.7	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125
14.	Calcium (as Ca)	mg/L	93.8	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67

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Continuation Sheet

Report No.4607 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Magnesium (as Mg)	mg/L	33.2	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.636	1.0 Max.	APHA 22nd Ed. 2012, 4500-F⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	0.15	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.8	--	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	--	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.341	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	--	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.048	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Water Sample Analysis Report

Report No.: ME-NG4609-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Well Water of Shri Madhukarrao Dhote field, Village-Kapustalni	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017
Water Level Depth	5.12 meter from ground level		

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	0.4	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.4	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	470	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	346	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	234	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	54.2	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	40.9	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13.	Nitrate (as NO_3)	mg/L	74.2	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125

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Report No.4609 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
14.	Calcium (as Ca)	mg/L	72.1	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	40.3	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.483	1.0 Max.	APHA 22nd Ed. 2012, 4500-F⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.0	--	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	--	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.293	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.06	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	--	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.001	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Water Sample Analysis Report

Report No.: ME-NG4608-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Well Water Gram Panchayat Pimpal Vihar	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017
Water Level Depth	3.6 meter from ground level		

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	1.0	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.6	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	337	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	-	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	0.06	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	284	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	284	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	13.3	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	19.6	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13.	Nitrate (as NO_3)	mg/L	9.74	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125

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Report No.4608 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Calcium (as Ca)	mg/L	57.7	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
14.	Magnesium (as Mg)	mg/L	34.0	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.420	1.0 Max.	APHA 22nd Ed. 2012, 4500-F⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.8	-	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.311	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	-	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.034	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.025	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

MAHABAL ENVIRO ENGINEERS P LTD

Kishor C. Yeole

BRANCH MANAGER

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Water Sample Analysis Report

Report No.: ME-NG4604-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Well Water of Shri Arun Ghathode Vill. Rasalpur	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017
Water Level Depth	14.8 meter from ground level		

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1.1	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	0.7	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.7	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	899	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	334	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	476	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	30.8	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	122	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190

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Report No.4604 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO_3)	mg/L	40.6	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125
14.	Calcium (as Ca)	mg/L	73.7	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	36.4	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.523	1.0 Max.	APHA 22nd Ed. 2012, 4500-F^- B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	0.16	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.8	--	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	--	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.523	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	N.D.	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	--	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.020	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.015	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER

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Water Sample Analysis Report

Report No.: ME-NG4606-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Well Water of Shri Shyamroaji Zode House Village-Talkhanda	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017
Water Level Depth	4.2 meter from ground level		

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1.1	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	<1	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	0.6	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.2	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	407	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	15	--	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	0.08	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	344	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	300	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	20.8	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	11.8	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13.	Nitrate (as NO_3)	mg/L	55.3	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125

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Report No.4606 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
14.	Calcium (as Ca)	mg/L	84.2	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	32.6	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.500	1.0 Max.	APHA 22nd Ed. 2012, 4500-F⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.2	--	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	--	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.290	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	--	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.029	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
BRANCH MANAGER

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Water Sample Analysis Report

Report No.: ME-NG4605-170404-SA-RIPL-AMRAVATI			**Date**: 04.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Dugwell of Wagholi Village	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	04.04.2017

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	1.5	5 Max.	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	0.8	1 Max.	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.1	6.5 to 8.5	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	350	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	162	--	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	N.D.	0.2 Min.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	304	200 Max.	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	200	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	29.8	250 Max.	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	37.8	200 Max	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13.	Nitrate (as NO_3)	mg/L	22.2	45 Max	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125
14.	Calcium (as Ca)	mg/L	94.6	75 Max.	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67

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Continuation Sheet

Report No.4605 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Magnesium (as Mg)	mg/L	16.5	30 Max.	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.579	1.0 Max.	APHA 22nd Ed. 2012, 4500-F^- B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	0.14	0.5 Max.	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.8	--	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	--	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.361	0.3 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	--	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.019	5 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	0.001 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
BRANCH MANAGER

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Water Sample Analysis Report

Report No.: ME-NG4610-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Surface water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Malegaon Pond	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017

Sr. No.	Parameter	Unit	Result	Method Reference
1	Colour	Hazen	<1	APHA 22nd Ed. 2012, 2120-B, 2-6
2	Odour	-	Agreeable	IS 3025 (Part 5):1983, RA 2006
3	Taste	-	NA	IS 3025 (Part 7):1984, RA 2006
4	Turbidity	NTU	15.7	APHA 22nd Ed. 2012, 2130-B, 2-13
5	pH	-	7.9	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6	Total Dissolved Solids	mg/L	190	IS 3025 (Part 16):1984 RA 2006
7	Total Suspended Solids	mg/L	16	APHA 22nd Ed. 2012, 2540-D, 2-66
8	Free Chlorine (Residual)	mg/L	<0.05	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9	Total Hardness (as $CaCO_3$)	mg/L	152	APHA 22nd Ed. 2012, 2340-C,2-44,45
10	Alkalinity Total (as $CaCO_3$)	mg/L	150	IS 3025 (Part 23):1986 RA 2009
11	Chloride (as Cl)	mg/L	13.9	APHA 22nd Ed. 2012, 4500-Cl-B, 4-72
12	Sulphate (as SO_4)	mg/L	14.8	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13	Nitrate (as NO_3)	mg/L	<0.5	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125

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Continuation Sheet

Report No.4610 cont.

Sr. No.	Parameter	Unit	Result	Method Reference
14	Calcium(as Ca)	mg/L	39.3	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
15	Magnesium (as Mg)	mg/L	13.1	APHA 22nd Ed. 2012, 3500-Mg- B, 3-84
16	Fluoride(as F)	mg/L	0.437	APHA 22nd Ed. 2012, 4500-F- B & D, 4-84, 4-87
17	Boron(as B)	mg/L	0.15	APHA 22nd Ed. 2012, 4500-B B, 4-25
18	Dissolved Oxygen	mg/L	5.8	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2003, Ed. 2.1
20	Iron (as Fe)	mg/L	1.55	APHA 22nd Ed. 2012, 3111-B, 3-18
21	Manganese (as Mn)	mg/L	0.034	APHA 22nd Ed. 2012, 3111-B, 3-18
22	Cadmium (as Cd)	mg/L	<0.1	APHA 22nd Ed. 2012, 3111-B, 3-18
23	Copper (as Cu)	mg/L	N.D.	APHA 22nd Ed. 2012, 3111-B, 3-18
24	Chromium Hexa (as Cr^{6+})	mg/L	<0.02	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25	Lead (as Pb)	mg/L	<0.1	APHA 22nd Ed. 2012, 3111-B, 3-18
26	Zinc (as Zn)	mg/L	0.034	APHA 22nd Ed. 2012, 3111-B, 3-18
27	Arsenic (as As)	mg/L	N.D.	APHA 22nd Ed. 2012, 3114-C, 3-38
28	Mercury (as Hg)	mg/L	N.D.	APHA 22nd Ed. 2012, 3112-B, 3-23
29	Selenium (as Se)	mg/L	N.D.	APHA 22nd Ed. 2012, 3114-C, 3-38
30	Aluminium (as Al)	mg/L	N.D.	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31	Cyanide (as CN)	mg/L	N.D.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected,				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
BRANCH MANAGER

MAHABAL ENVIRO ENGINEERS P. LTD.

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Water Sample Analysis Report

Report No.: ME-NG4611-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Surface water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Wagholi Pond	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017

Sr. No.	Parameter	Unit	Result	Method Reference
1	Colour	Hazen	<1	APHA 22nd Ed. 2012, 2120-B, 2-6
2	Odour	-	Agreeable	IS 3025 (Part 5):1983, RA 2006
3	Taste	-	NA	IS 3025 (Part 7):1984, RA 2006
4	Turbidity	NTU	8.2	APHA 22nd Ed. 2012, 2130-B, 2-13
5	pH	-	7.8	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6	Total Dissolved Solids	mg/L	337	IS 3025 (Part 16):1984 RA 2006
7	Total Suspended Solids	mg/L	16	APHA 22nd Ed. 2012, 2540-D, 2-66
8	Free Chlorine (Residual)	mg/L	<0.05	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9	Total Hardness (as $CaCO_3$)	mg/L	248	APHA 22nd Ed. 2012, 2340-C,2-44,45
10	Alkalinity Total (as $CaCO_3$)	mg/L	140	IS 3025 (Part 23):1986 RA 2009
11	Chloride (as Cl)	mg/L	40.9	APHA 22nd Ed. 2012, 4500-Cl-B, 4-72
12	Sulphate (as SO_4)	mg/L	89.5	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190
13	Nitrate (as NO_3)	mg/L	<0.5	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125

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Report No.4611 cont.

Sr. No.	Parameter	Unit	Result	Method Reference
14	Calcium (as Ca)	mg/L	52.1	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
15	Magnesium (as Mg)	mg/L	28.7	APHA 22nd Ed. 2012, 3500-Mg- B, 3-84
16	Fluoride(as F)	mg/L	0.32	APHA 22nd Ed. 2012, 4500-F- B & D, 4-84, 4-87
17	Boron(as B)	mg/L	<0.1	APHA 22nd Ed. 2012, 4500-B B, 4-25
18	Dissolved Oxygen	mg/L	5.8	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20	Iron (as Fe)	mg/L	0.567	APHA 22nd Ed. 2012, 3111-B, 3-18
21	Manganese (as Mn)	mg/L	0.05	APHA 22nd Ed. 2012, 3111-B, 3-18
22	Cadmium (as Cd)	mg/L	N.D.	APHA 22nd Ed. 2012, 3111-B, 3-18
23	Copper (as Cu)	mg/L	N.D.	APHA 22nd Ed. 2012, 3111-B, 3-18
24	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25	Lead (as Pb)	mg/L	N.D.	APHA 22nd Ed. 2012, 3111-B, 3-18
26	Zinc (as Zn)	mg/L	0.040	APHA 22nd Ed. 2012, 3111-B, 3-18
27	Arsenic (as As)	mg/L	N.D.	APHA 22nd Ed. 2012, 3114-C, 3-38
28	Mercury (as Hg)	mg/L	N.D.	APHA 22nd Ed. 2012, 3112-B, 3-23
29	Selenium (as Se)	mg/L	N.D.	APHA 22nd Ed. 2012, 3114-C, 3-38
30	Aluminium (as Al)	mg/L	<0.025	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31	Cyanide (as CN)	mg/L	N.D.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected,				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
BRANCH MANAGER

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Water Sample Analysis Report

Report No.: ME-NG4614-170406-SA-RIPL-AMRAVATI			**Date**: 06.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Ground Water/Grab	**Sample Collected by**	Laboratory
Sampling Location	Back side of Ash Dyke area well of Mr. Vasant Pachghare	**Sample Quantity/Packing**	3 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	25.03.2017	**Date of Receipt of Sample**	25.03.2017
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	27.03.2017	**Date of Completion of Analysis**	05.04.2017
Water Level Depth	4.0 meter from ground level		

Sr. No.	Parameter	Unit	Result	Inland Surface water (EPA rule 1986)	Method Reference
1.	Colour	Hazen	<1	-	APHA 22nd Ed. 2012, 2120-B, 2-6
2.	Odour	-	Agreeable	-	IS 3025 (Part 5):1983, RA 2006
3.	Taste	-	Disagreeable	-	IS 3025 (Part 7):1984, RA 2006
4.	Turbidity	NTU	3.2	-	APHA 22nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.5	5.5 to 9.0	APHA 22nd Ed. 2012, 4500-H^+-B, 4-92
6.	Total Dissolved Solids	mg/L	432	-	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	28	100 Max.	APHA 22nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	N.D.	1.0 Max.	APHA 22nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as $CaCO_3$)	mg/L	254	-	APHA 22nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as $CaCO_3$)	mg/L	268	-	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	19.4	-	APHA 22nd Ed. 2012, 4500-Cl^-B, 4-72
12.	Sulphate (as SO_4)	mg/L	18.9	-	APHA 22nd Ed. 2012, 4500- SO_4-E, 4-190

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Continuation Sheet

Report No.4614 Cont...

Sr. No.	Parameter	Unit	Result	Inland Surface water (EPA rule 1986)	Method Reference
13.	Nitrate (as NO_3)	mg/L	22.8	10 Max.	APHA 22nd Ed. 2012, 4500-NO_3-E, 4-125
15.	Calcium (as Ca)	mg/L	42.8	-	APHA 22nd Ed. 2012, 3500-Ca-B, 3-67
14.	Magnesium (as Mg)	mg/L	35.8	-	APHA 22nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.22	2.0 Max.	APHA 22nd Ed. 2012, 4500-F^- B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	-	APHA 22nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.6	-	APHA 22nd Ed. 2012, 4500-O, B & C, 4-136, 4-139
19.	Oil and Grease	mg/L	N.D.	10 Max.	IS 3025 (Part 39): 1991, RA 2003, Ed. 2.1
20.	Iron (as Fe)	mg/L	0.34	3.0 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	2.0 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	2.0 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	3.0 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	0.1 Max.	APHA 22nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.1 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.08	5.0 Max.	APHA 22nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.2 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.01 Max.	APHA 22nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.05 Max.	APHA 22nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.025	-	APHA 22nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.2 Max.	APHA 22nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C_6H_5OH)	mg/L	N.D.	1.0 Max.	APHA 22nd Ed. 2012, 5530- B & C, 5-47
Remarks: Limit is EPA Rule 1986 of Schedule VI (rule 3A) of General Standard for Discharge of Environmental Pollutants Part A Effluents Detected.					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
BRANCH MANAGER

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Noise Level Monitoring Report

Report No.: ME-NG4615-170404-SA-RIPL-AMRAVATI			**Date:** 04.04.2017
Name and Address of Customer	**RATTANINDIA POWER LIMITED** Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		**Order Reference:** SO No. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Noise Level Monitoring	**Sample Collected by**	Laboratory
Date of Sampling	23.03.2017		
Sampling Procedure	Instrument Catalogue & User manual		

Location	Unit	Result		Norms as per factory Act.	
		Min.	Max.	Maximum Exposure duration per Day	Limit
Green Point gate	dB(A)	68.8	73.2	8 h	90 Max.
Wagholi gate	dB(A)	69.8	72.8		
Near Material gate	dB(A)	68.4	73.7		
Near Labour Colony	dB(A)	67.4	70.8		
Near Bachelor Colony Building	dB(A)	64.1	69.4		
Remark: : Limit from The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV Page No. 283-284					

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