



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

Stack Emission Monitoring Report

Report No.: ME-NG6868-181219-SA-RIPL-AMRAVATI		Date: 19.12.2018	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#1	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	12.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	18.12.2018

Stack Details				
Stack Identity		Boiler Unit #1		
Stack attached to		ESP of Boiler U#1		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		127		
Load (MW)		192		
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	123	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1336489	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	41	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	577	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18508	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	156	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	11.8	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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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

ULR-TC748718000004337F



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Stack Emission Monitoring Report

Report No.: ME-NG6869-181219-SA-RIPL-AMRAVATI		Date: 19.12.2018	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit# 2	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	12.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	18.12.2018

Stack Details				
Stack Identity		Boiler Unit# 2		
Stack attached to		ESP of Boiler U#2		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		116		
Load (MW)		194		
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	120	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1324020	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	40	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	572	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18176	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	242	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.6	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

-----END-----

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Stack Emission Monitoring Report

Report No.: ME-NG6870-181219-SA-RIPL-AMRAVATI		Date: 19.12.2018	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #3	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	12.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	18.12.2018

Stack Details				
Stack Identity		Boiler Unit#3		
Stack attached to		ESP of Boiler U#3		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		124		
Load (MW)		191		
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	118	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1335349	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	40	-	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	580	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18588		
*Oxides of Nitrogen(NO _x)	mg/Nm ³	211	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.0	-	IS 13270:1992, Reaffirmed 2009
Remarks:				

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Stack Emission Monitoring Report

Report No.: ME-NG7604-190104-SA-RIPL-AMRAVATI		Date: 04.01.2019	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#2	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	24.12.2018	Date of Receipt of Sample	25.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	26.12.2018	Date of Completion of Analysis	01.01.2019

Stack Details				
Stack Identity	Boiler Unit #2			
Stack attached to	ESP of Boiler U#2			
Material of construction	M.S.			
Stack height above ground level (Meter)	275			
Stack diameter at sampling point (Meter)	4.6			
Stack shape at top	Round			
Type of fuel	Coal			
Fuel Consumption (t/h)	148			
Load (MW)	271			
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	129	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1316541	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	586	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18516	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	156	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.1	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

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Stack Emission Monitoring Report

Report No.: ME-NG7605-190104-SA-RIPL-AMRAVATI		Date: 04.01.2018	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit# 5	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	24.12.2018	Date of Receipt of Sample	25.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	26.12.2018	Date of Completion of Analysis	01.01.2019

Stack Details				
Stack Identity		Boiler Unit# 5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		116		
Load (MW)		194		
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	127	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1305304	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	590	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18483	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	218	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	11.8	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

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Stack Emission Monitoring Report

Report No.: ME-NG7604-190104-SA-RIPL-AMRAVATI		Date: 04.01.2019	
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. 3382014804	
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#2	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	24.12.2018	Date of Receipt of Sample	25.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	26.12.2018	Date of Completion of Analysis	01.01.2019

Stack Details				
Stack Identity	Boiler Unit #2			
Stack attached to	ESP of Boiler U#2			
Material of construction	M.S.			
Stack height above ground level (Meter)	275			
Stack diameter at sampling point (Meter)	4.6			
Stack shape at top	Round			
Type of fuel	Coal			
Fuel Consumption (t/h)	148			
Load (MW)	271			
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	129	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1316541	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	586	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18516	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	156	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.1	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

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Report No.: ME-NG7605-190104-SA-RIPL-AMRAVATI		Date: 04.01.2018	
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. 3382014804
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit# 5	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle CO ₂ : Bladder: 1 X 1 No.
Date of Sampling	24.12.2018	Date of Receipt of Sample	25.12.2018
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	26.12.2018	Date of Completion of Analysis	01.01.2019

Stack Details				
Stack Identity		Boiler Unit# 5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		116		
Load (MW)		194		
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	127	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1305304	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1):1985, RA 2003
*Sulphur Dioxide (SO ₂)	mg/Nm ³	590	-	IS 11255 (Part 2):1985, RA 2003
*Sulphur Dioxide (SO ₂)	kg/day	18483	52230	IS 11255 (Part 2):1985, RA 2003
*Oxides of Nitrogen(NO _x)	mg/Nm ³	218	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	11.8	-	IS 13270:1992, Reaffirmed 2009
Remarks: #Limit as per MPCB Consent, *Results corrected to 6% O ₂				

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Ambient Air Quality Monitoring Report

Report No.: ME-NG7601-190104-SA-RIPL-AMRAVATI		Date: 04.01.2019	
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. 3382014804
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Near Wagholi gate 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 : 30mL X18 No. PVC Bottle NH ₃ : 10 mL X72 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	24.12.2018 & 25.12.2018	Date of Receipt of Sample	25.12.2018
Sampling Procedure	As per Method reference		
Date of Start of Analysis	26.12.2018	Date of Completion of Analysis	01.12.2019

Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
3.5 km/h	NE	84	56	28.0	12.0
Location	1) Near Wagholi gate			Duration of Survey : 24 hours	
Parameter	Unit	Result	#NAAQM Standard	Method Reference	
Sulphur Dioxide (SO ₂)	µg/m ³	10.1	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	12.6	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	µg/m ³	55	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	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30	
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34	
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	

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Report No.7601 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide(CO)	mg/m ³	1.10	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20.0	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	<1.0	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
Location	2) Mr.Rahul Nakade House Village-Dawargaon			Duration of Survey : 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	18.4	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	13.3	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	52	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	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
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	0.98	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20.0	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	<1.0	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	0.41	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	3.5	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

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ULR-TC748718000005070F

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	3) Ramkirshna Temple Vill- Kapustalani			Duration of Survey : 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	13.8	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	14.8	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	56	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	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
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	1.08	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20.0	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	<1.0	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	0.55	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	3.78	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


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-NG6871-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
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. 3382014804	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Terrace of Bachelor Guest House 2) Terrace of WTP Plant Building 3) Near Site Office	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 : 10 mL X72 No. PVC Bottle O ₃ : 10 mL X 72 No. PVC Bottle 3 X 6 No. Charcoal Tubes 3 X 3 No. Rubber Bladder Hg: 30mL X 6 No. PVC Bottle
Date of Sampling	12.12.2018 to 13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	As per Method reference		
Date of Start of Analysis	14.12.2018	Date of Receipt of Sample	20.12.2018

Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
3.2 km/h	SE	58	32	44.0	26.0
Location	1) Terrace of Bachelor Guest House			Duration of Survey : 24 hours	
Parameter	Unit	Result	#NAAQM Standard	Method Reference	
Sulphur Dioxide (SO ₂)	µg/m ³	13.8	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	16.9	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	64	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	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30	
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34	
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	

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Report No.6871 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide(CO)	mg/m ³	0.96	4.0	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.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.63	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	0.564	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
Location	2) Terrace of WTP Plant Building			Duration of Survey : 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	11.9	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	11.9	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	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}	µg/m ³	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
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	1.03	4.0	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.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.76	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	0.84	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	3.38	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

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Report No.6871 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	3) Near Site Office			Duration of Survey : 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	16.5	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	14.0	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	69	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	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
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	1.13	4.0	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.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.93	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	0.68	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	3.32	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. The tests marked with an * are not accredited by NABL				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Water Sample Analysis Report

Report No.: ME-NG6858-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		Order Reference:
			SO No. 3382014804
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Back Side Of Ash Dyke Area Well Water Of Mr. Narayan Lomte Farm	Sample Quantity/Packing	3 L X 1 No. PVC Can 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018
Water Level Depth	3.17 meter from ground level		

ULR-TC748718000004327P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.3	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.2	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	524	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	288	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	372	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	51.3	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	42.2	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6858 Cont...

ULR-TC748718000004327P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	39.2	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	110	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	23.8	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.232	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	7.4	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.305	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.018	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



Note:

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Water Sample Analysis Report

Report No.: ME-NG6857-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		Order Reference:
			SO No. 3382014804
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Gram Panchayat Pimpal Vihargaon	Sample Quantity/Packing	3 L X 1 No. PVC Can 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018
Water Level Depth	3.17 meter from ground level		

ULR-TC748718000004326P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.3	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.4	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	403	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	294	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	276	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	24.7	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	12.7	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199

Report No.6857 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	9.47	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	74.5	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	21.9	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.317	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	6.0	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.336	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	N.D.	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.028	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Water Sample Analysis Report

Report No.: ME-NG6856-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		Order Reference:
			SO No. 3382014804
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 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018

ULR-TC748718000004325P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.5	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.5	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	720	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	374	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	510	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	110	250 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	70.9	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6856 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	52.6	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	135	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	42.3	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.289	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	0.12	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	7.0	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.378	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.568	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Water Sample Analysis Report

Report No.: ME-NG6855-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	Order Reference:	
		SO No. 3382014804	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water of Shri Madhukarrao Dhote field, Vill.-Kapustalni	Sample Quantity/Packing	3 L X 1 No. PVC Can 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018

ULR-TC748718000004324P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.3	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.1	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	478	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	246	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	370	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	62.7	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	42.4	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6855 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	42.8	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	102	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	27.7	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.334	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	7.2	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.232	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	<0.05	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.139	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Water Sample Analysis Report

Report No.: ME-NG6854-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	Order Reference:	
		SO No. 3382014804	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Dugwell of Field of Mr. Bhaskar Harde Wagholi Village	Sample Quantity/Packing	3 L X 1 No. PVC Can 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018

ULR-TC748718000004323P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.2	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.3	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	399	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	<5	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<0.05	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	308	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	252	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	13.4	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	24.9	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6854 Cont...

ULR-TC748718000004323P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	36.5	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	87.4	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	21.9	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.289	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	5.8	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.378	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	0.083	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.139	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

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Water Sample Analysis Report

Report No.: ME-NG6853-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		Order Reference:
			SO No. 3382014804
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 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018
Water Level Depth	4.52 meter from ground level		

ULR-TC748718000004322P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.3	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.2	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	477	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	250	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	368	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	52.2	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	65.6	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6853 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	15.6	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	111	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	22.4	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.289	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	6.9	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.294	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.068	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50

Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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Water Sample Analysis Report

Report No.: ME-NG6852-181220-SA-RIPL-AMRAVATI		Date: 20.12.2018	
Name and Address of Customer	RATTANIINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		Order Reference:
			SO No. 3382014804
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 500mL X 1 No. Glass Bottle
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018
Water Level Depth	7.22 meter from ground level		

ULR-TC748718000004321P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.4	1 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.8	6.5 to 8.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	664	500 Max.	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	378	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	476	200 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride(as Cl)	mg/L	61.8	250 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	73.0	200 Max	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199



Report No.6852 Cont...

ULR-TC748718000004321P

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	27.8	45 Max	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	88.2	75 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	62.2	30 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride(as F)	mg/L	0.544	1.0 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	6.8	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.284	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	N.D.	0.1 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
23.	Cadmium (as Cd)	mg/L	<0.05	0.003 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	<0.04	-	APHA 23 rd Ed. 2017, 3500-Cr-B, 3-71
25.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.028	5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 23 rd Ed. 2017, 5530-B & C, 5-49, 5-50
Remarks: The tests marked with an * are not accredited by NABL; N.D. – Not Detected					

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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Water Sample Analysis Report

Report No.: ME-NG6866-181221-SA-RIPL-AMRAVATI		Date: 21.12.2018	
Name and Address of Customer	RATTANINDIA POWER LIMITED (Formerly Indiabulls Power Limited) Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	Order Reference:	
		SO No. 3382014804	
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	1. Wagholi Pond 2. Malegaon Pond	Sample Quantity/Packing	2 L X 2 No. PVC Can 500mL X 2 No. PVC Can
Date of Sampling	13.12.2018	Date of Receipt of Sample	14.12.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	14.12.2018	Date of Completion of Analysis	20.12.2018

ULR-TC748718000004335P

Sr. No.	Parameter	Unit	Result		Method Reference
			1	2	
1.	Colour	Hazen	<1	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agree able	Agree able	IS 3025 (Part 5):1984, Reaffirmed 2006
3.	Taste	-	NA	NA	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	4.0	3.2	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	8.0	7.9	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Total Dissolved Solids	mg/L	320	396	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
7.	Total Suspended Solids	mg/L	9.6	10	APHA 23 rd Ed. 2017, 2540-D, 2-70
8.	Free Chlorine (Residual)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
9.	Alkalinity Total (as CaCO ₃)	mg/L	226	342	IS 3025 (Part 23):1986 RA 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	134	174	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	36.4	61.8	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	82.6	106	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13.	Nitrate (as NO ₃)	mg/L	0.86	1.96	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium(as Ca)	mg/L	51.3	91.4	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	23.8	26.2	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86



Report No.6866 cont...

Sr. No.	Parameter	Unit	Result		Method Reference
			1	2	
16.	Fluoride (as F)	mg/L	0.278	0.278	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	<0.1	<0.1	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18.	Dissolved Oxygen	mg/L	6.5	7.1	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	Oil and Grease	mg/L	N.D.	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	Iron (as Fe)	mg/L	0.336	0.368	APHA 23 rd Ed. 2017, 3111-B, 3-20
21.	Manganese (as Mn)	mg/L	0.064	0.074	APHA 23 rd Ed. 2017, 3111-B, 3-20
22.	Aluminium (as Al)	mg/L	<0.025	<0.025	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
23.	Cadmium (as Cd)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	<0.02	<0.02	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
25.	Copper (as Cu)	mg/L	<0.04	<0.04	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Lead (as Pb)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Zinc (as Zn)	mg/L	0.040	0.047	APHA 23 rd Ed. 2017, 3111-B, 3-20
28.	Arsenic (as As)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 3114-C, 3-40
29.	Mercury (as Hg)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
30.	Selenium (as Se)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 3114-C, 3-40
31.	*Cyanide (as CN)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
32.	*Phenolic compounds (as C ₆ H ₅ OH)	mg/L	N.D.	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Remarks: N.D. – Not Detected; NA – Not Applicable					

ULR-TC748718000004335P

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Noise Level Monitoring Report

Report No.: ME-NG6890-181220-SA- RIPL-AMRAVATI		Date: 20.12.2018	
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. 3382014804
Sample Description/Type	Noise Level Monitoring	Sample Collected by	NA
Date of Sampling	14.12.2018		
Sampling Procedure	IS 9876:1981 & manufacturer Manual		

Location	Unit	Result		Norms as per factory Act.	
		Min.	Max.	Maximum Exposure duration per Day	Limit
Green Point gate	dB(A)	71.5	77.2	8 h	90 Max.
Wagholi gate	dB(A)	67.9	78.4		
Near Material gate	dB(A)	72.6	79.1		
Near Labour Colony	dB(A)	65.8	68.8		
Near Bachelor Colony Building	dB(A)	64.9	67.9		
Remark: : Limit from The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV Page No. 283-284					

ULR-TC748718000004359F

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