



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-NG3893-180308-SA-RIPL-AMRAVATI		Date: 08.03.2018	
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. 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	27.02.2018	Date of Receipt of Sample	28.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.03.2018	Date of Completion of Analysis	07.03.2018

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)		140		
ESP Fields (28 No's.)		In Service (28 No's)		
Load at the time of monitoring		278 MW		
Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	°C	132	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1311189	-	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	568	-	IS 11255 (Part 2):1985 RA 2003

Report No.3893 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	17874	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO _x)	mg/Nm ³	190	-	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.


Kishor C.Yeole
BRANCH MANAGER



Note:

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Report No.: ME-NG3894-180308-SA-RIPL-AMRAVATI		Date: 08.03.2018	
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. 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	27.02.2018	Date of Receipt of Sample	28.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.03.2018	Date of Completion of Analysis	07.03.2018

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)		142		
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	°C	133	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1294792	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	31	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	556	-	IS 11255 (Part 2):1985 RA 2003

Report No.3894 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	17278	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)	%	12.2	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG3894-180308-SA-RIPL-AMRAVATI		Date: 08.03.2018	
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. 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	27.02.2018	Date of Receipt of Sample	28.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.03.2018	Date of Completion of Analysis	07.03.2018

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)		142		
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	°C	133	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1294792	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	31	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	610	-	IS 11255 (Part 2):1985 RA 2003

Report No.3894 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	18956	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)	%	12.2	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG3638-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	09.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	18.02.2018

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)		121		
ESP Fields (28 No's.)		In Service (28 No's)		
Load at the time of monitoring		194 MW		
Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	°C	124	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1315168	-	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	584	-	IS 11255 (Part 2):1985 RA 2003

Report No.3638 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	18433	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO _x)	mg/Nm ³	164	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.3	-	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-NG3639-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	09.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	18.02.2018

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)	121			
ESP Fields (28 No's.)	In Service (28 No's)			
Load at the time of monitoring	196 MW			
Parameter	Unit	Result	Limit as Per Consent	Method Reference
Flue gas Temperature	°C	133	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1312349	-	IS 11255 (Part 3):2008
Particulate Matter (PM)	mg/Nm ³	29	50	IS 11255 (Part 1):1985 RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	564	-	IS 11255 (Part 2):1985 RA 2003

Report No.3639 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	17705	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO _x)	mg/Nm ³	184	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.3	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG3640-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	09.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	18.02.2018

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)	122			
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	°C	143	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1301548	-	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	570	-	IS 11255 (Part 2):1985 RA 2003

Report No.3640 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	17805	52230	IS 11255 (Part 2):1985 RA 2003
Oxides of Nitrogen(NO _x)	mg/Nm ³	192	-	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	%	12.1	-	IS 13270:1992, RA 2009
Remarks :				

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Stack Emission Monitoring Report

Report No.: ME-NG3895-180308-SA-RIPL-AMRAVATI		Date: 08.03.2018	
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. 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	27.02.2018	Date of Receipt of Sample	28.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.03.2018	Date of Completion of Analysis	07.03.2018

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)		159		
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	°C	143	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	30.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1293653	-	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

Report No.3895 cont...

Parameter	Unit	Result	Limit as Per Consent	Method Reference
Sulphur Dioxide (SO ₂)	kg/day	17821	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)	%	12.2	-	IS 13270:1992, RA 2009
Remarks :				

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Ambient Air Quality Monitoring Report

Report No.: ME-NG3641-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 3382012035 dtd. 21.09.2015.	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Near 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	09.02.2018 & 10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	As per Method reference		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	18.02.2018

Meteorological Data/Environmental Conditions					
Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
2.8 km/h	NW	64	34	34.0	22.0
Location	1) Near Site Office			Duration of Survey : 24 hours	
Parameter	Unit	Result	#NAAQM Standard	Method Reference	
Sulphur Dioxide (SO ₂)	µg/m ³	10.6	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	13.4	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	µg/m ³	88	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	42	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	

Report No.3641 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide(CO)	mg/m ³	0.78	4.0	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH ₃)	µg/m ³	27.1	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	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) Terrace of WTP Plant			Duration of Survey : 24 hours
Sulphur Dioxide (SO ₂)	µg/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)	µg/m ³	12.3	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	74	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	36	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	0.72	4.0	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH ₃)	µg/m ³	25.8	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	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.3641 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	9.3	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	11.6	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	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	38	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	0.70	4.0	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH ₃)	µg/m ³	26.2	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	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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Note:

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Ambient Air Quality Monitoring Report

Report No.: ME-NG3892-180308-SA-RIPL-AMRAVATI		Date: 08.03.2018	
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. 3382012035 dtd. 21.09.2015.
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 : 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	27.02.2018 & 28.02.2018	Date of Receipt of Sample	28.02.2018
Sampling Procedure	As per Method Reference		
Date of Start of Analysis	01.03.2018	Date of Completion of Analysis	07.03.2018

Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
2.5 km/h	NW	70	48	35.0	24.0
Location : 1) Near Wagholi gate			Duration of Survey 24 hours		
Parameter	Unit	Result	#NAAQM Standard	Method Reference	
Sulphur Dioxide (SO ₂)	µg/m ³	10.4	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	12.8	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	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}	µg/m ³	40	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	

Report No.3892 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	µg/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	0.78	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	25.6	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	ng/m ³	1.1	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	µg/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
Parameter	Unit	Result	#NAAQM Standard	Method Reference
Sulphur Dioxide (SO ₂)	µg/m ³	8.4	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	11.2	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	36	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	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)	µg/m ³	25.6	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	ng/m ³	<1.0	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	µg/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

Report No.3892 cont...

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	8.4	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	10.6	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	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	36	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	0.70	4.0	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH ₃)	µg/m ³	25.2	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	ng/m ³	<1.0	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	µg/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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Noise Level Monitoring Report

Report No.: ME-NG3642-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 3382012035 dtd. 21.09.2015.
Sample Description/Type	Noise Level Monitoring	Sample Collected by	Laboratory
Date of Sampling	10.02.2018		
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)	67.5	76.8	8 h	90 Max.
Wagholi gate	dB(A)	77.1	79.2		
Near Material gate	dB(A)	75.1	77.4		
Near Labour Colony	dB(A)	66.2	73.1		
Near Bachelor Colony Building	dB(A)	68.2	74.8		
Remark: : Limit from The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV Page No. 283-284					

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Water Sample Analysis Report

Report No.: ME-NG3643-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	24.02.2018
Water Level Depth	6.22 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 22 nd 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	0.15	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.3	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	519	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	264	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	220	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	55.6	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	42.0	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13.	Nitrate (as NO ₃)	mg/L	41.5	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125

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Report No.3643 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
14.	Calcium (as Ca)	mg/L	75.4	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	18.5	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.669	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F ⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.3	--	APHA 22 nd 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	0.134	0.3 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	--	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.052	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.020	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Water Sample Analysis Report

Report No.: ME-NG3644-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 22 nd 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	0.38	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	6.7	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	724	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	600	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	332	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride (as Cl)	mg/L	102	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	41.6	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13.	Nitrate (as NO ₃)	mg/L	66.7	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125
14.	Calcium (as Ca)	mg/L	149	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67

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Report No.3644 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Magnesium (as Mg)	mg/L	55.4	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.506	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.2	--	APHA 22 nd 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 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	--	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.024	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.005	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd 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

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Water Sample Analysis Report

Report No.: ME-NG3645-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 3382012035 dtd. 21.09.2015.	
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 1 L X 1 No. Glass Bottle
Date of Sampling	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018
Water Level Depth	3.60 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 22 nd 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	0.21	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.2	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	358	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	-	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	260	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	260	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	9.9	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	12.0	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13.	Nitrate (as NO ₃)	mg/L	6.54	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125

Report No.3645 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Calcium (as Ca)	mg/L	68.1	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
14.	Magnesium (as Mg)	mg/L	21.9	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.512	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.2	-	APHA 22 nd 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	0.164	0.3 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	N.D.	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	-	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.052	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.003	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Kishor C. Yeole
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Water Sample Analysis Report

Report No.: ME-NG3646-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018
Water Level Depth	12.4 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 22 nd 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	0.21	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.1	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	855	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	270	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	380	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	40.7	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	111	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190

Report No.3646 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	34.3	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ .E, 4-125
14.	Calcium (as Ca)	mg/L	57.7	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	30.6	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.919	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F ⁻ B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.4	--	APHA 22 nd 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	0.172	0.3 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	--	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.023	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.017	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Kishor C. Yeole
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Water Sample Analysis Report

Report No.: ME-NG3647-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018
Water Level Depth	4.74 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 22 nd 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	0.18	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.4	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	432	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	364	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	230	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	27.8	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	40.8	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13.	Nitrate (as NO ₃)	mg/L	17.6	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125

Report No.3647 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
14.	Calcium (as Ca)	mg/L	93.0	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15.	Magnesium (as Mg)	mg/L	32.1	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.552	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.8	--	APHA 22 nd 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	0.249	0.3 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	--	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.042	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.012	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 5530- B & C, 5-47
Remarks: N.D. – Not Detected					

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Water Sample Analysis Report

Report No.: ME-NG3648-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
1.	Colour	Hazen	<1	5 Max.	APHA 22 nd 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	<0.1	1 Max.	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.4	6.5 to 8.5	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	448	500 Max.	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	<5	--	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	<0.05	0.2 Min.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	386	200 Max.	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	160	200 Max	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride (as Cl)	mg/L	37.9	250 Max.	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	90.0	200 Max	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13.	Nitrate (as NO ₃)	mg/L	21.2	45 Max	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125
14.	Calcium (as Ca)	mg/L	110	75 Max.	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67

Page 1 of 2

Report No.3648 Cont...

Sr. No.	Parameter	Unit	Result	Acceptable Limit for Drinking water (IS 10500:2012)	Method Reference
15.	Magnesium (as Mg)	mg/L	27.2	30 Max.	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.517	1.0 Max.	APHA 22 nd Ed. 2012, 4500-F B & D, 4-84, 4-87
17.	Boron(as B)	mg/L	<0.1	0.5 Max.	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	6.5	--	APHA 22 nd 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	0.218	0.3 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	0.003 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	--	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.028	5 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.001 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	<0.02	0.03 Max.	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	APHA 22 nd 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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Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

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

Water Sample Analysis Report

Report No.: ME-NG3651-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	11.02.2018
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018

Sr. No.	Parameter	Unit	Result	Method Reference
1	Colour	Hazen	<1	APHA 22 nd 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	18	APHA 22 nd Ed. 2012, 2130-B, 2-13
5	pH	-	7.8	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6	Total Dissolved Solids	mg/L	228	IS 3025 (Part 16):1984 RA 2006
7	Total Suspended Solids	mg/L	40	APHA 22 nd Ed. 2012, 2540-D, 2-66
8	Free Chlorine (Residual)	mg/L	<0.05	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9	Total Hardness (as CaCO ₃)	mg/L	140	APHA 22 nd Ed. 2012, 2340-C,2-44,45
10	Alkalinity Total (as CaCO ₃)	mg/L	126	IS 3025 (Part 23):1986 RA 2009
11	Chloride (as Cl)	mg/L	18.9	APHA 22 nd Ed. 2012, 4500-Cl-B, 4-72
12	Sulphate (as SO ₄)	mg/L	17.0	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13	Nitrate (as NO ₃)	mg/L	0.662	APHA 22 nd Ed. 2012, 4500-NO ₃ .E, 4-125

Report No.3651 cont.

Sr. No.	Parameter	Unit	Result	Method Reference
14	Calcium(as Ca)	mg/L	28.1	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15	Magnesium (as Mg)	mg/L	17.0	APHA 22 nd Ed. 2012, 3500-Mg- B, 3-84
16	Fluoride(as F)	mg/L	0.512	APHA 22 nd Ed. 2012, 4500-F- B & D, 4-84, 4-87
17	Boron(as B)	mg/L	<0.1	APHA 22 nd Ed. 2012, 4500-B B, 4-25
18	Dissolved Oxygen	mg/L	6.9	APHA 22 nd 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	0.787	APHA 22 nd Ed. 2012, 3111-B, 3-18
21	Manganese (as Mn)	mg/L	0.117	APHA 22 nd Ed. 2012, 3111-B, 3-18
22	Cadmium (as Cd)	mg/L	0.014	APHA 22 nd Ed. 2012, 3111-B, 3-18
23	Copper (as Cu)	mg/L	0.005	APHA 22 nd Ed. 2012, 3111-B, 3-18
24	Chromium Hexa (as Cr ⁶⁺)	mg/L	0.009	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25	Lead (as Pb)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26	Zinc (as Zn)	mg/L	0.0194	APHA 22 nd Ed. 2012, 3111-B, 3-18
27	Arsenic (as As)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28	Mercury (as Hg)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29	Selenium (as Se)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30	Aluminium (as Al)	mg/L	0.003	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31	Cyanide (as CN)	mg/L	N.D.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 22 nd 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

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Note:

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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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Water Sample Analysis Report

Report No.: ME-NG3652-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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. 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	22.02.2018

Sr. No.	Parameter	Unit	Result	Method Reference
1	Colour	Hazen	17	APHA 22 nd Ed. 2012, 2120-B, 2-6
2	Odour	-	Disagreeable	IS 3025 (Part 5):1983, RA 2006
3	Taste	-	NA	IS 3025 (Part 7):1984, RA 2006
4	Turbidity	NTU	1.9	APHA 22 nd Ed. 2012, 2130-B, 2-13
5	pH	-	7.7	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6	Total Dissolved Solids	mg/L	449	IS 3025 (Part 16):1984 RA 2006
7	Total Suspended Solids	mg/L	32	APHA 22 nd Ed. 2012, 2540-D, 2-66
8	Free Chlorine (Residual)	mg/L	0.074	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9	Total Hardness (as CaCO ₃)	mg/L	270	APHA 22 nd Ed. 2012, 2340-C,2-44,45
10	Alkalinity Total (as CaCO ₃)	mg/L	118	IS 3025 (Part 23):1986 RA 2009
11	Chloride (as Cl)	mg/L	50.6	APHA 22 nd Ed. 2012, 4500-Cl-B, 4-72
12	Sulphate (as SO ₄)	mg/L	92.0	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190
13	Nitrate (as NO ₃)	mg/L	0.649	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125

Report No.3652 cont.

Sr. No.	Parameter	Unit	Result	Method Reference
14	Calcium (as Ca)	mg/L	57.7	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
15	Magnesium (as Mg)	mg/L	30.6	APHA 22 nd Ed. 2012, 3500-Mg- B, 3-84
16	Fluoride(as F)	mg/L	0.552	APHA 22 nd Ed. 2012, 4500-F- B & D, 4-84, 4-87
17	Boron(as B)	mg/L	<0.1	APHA 22 nd Ed. 2012, 4500-B B, 4-25
18	Dissolved Oxygen	mg/L	6.2	APHA 22 nd 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	0.995	APHA 22 nd Ed. 2012, 3111-B, 3-18
21	Manganese (as Mn)	mg/L	<0.04	APHA 22 nd Ed. 2012, 3111-B, 3-18
22	Cadmium (as Cd)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23	Copper (as Cu)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24	Chromium Hexa (as Cr ⁶⁺)	mg/L	0.032	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25	Lead (as Pb)	mg/L	<0.1	APHA 22 nd Ed. 2012, 3111-B, 3-18
26	Zinc (as Zn)	mg/L	0.022	APHA 22 nd Ed. 2012, 3111-B, 3-18
27	Arsenic (as As)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28	Mercury (as Hg)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29	Selenium (as Se)	mg/L	N.D.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30	Aluminium (as Al)	mg/L	<0.004	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31	Cyanide (as CN)	mg/L	N.D.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 22 nd Ed. 2012, 5530- B & C, 5-47

Remarks: N.D. – Not Detected,

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Water Sample Analysis Report

Report No.: ME-NG3649-180228-SA-RIPL-AMRAVATI		Date: 28.02.2018	
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:	
		Service Order No. 3382014804 dtd. 19.08.2017	
Sample Description/Type	Surface 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	10.02.2018	Date of Receipt of Sample	10.02.2018
Sampling Procedure	IS: 3025(Part I):1987 RA 2003; APHA 22 nd Ed. 2012, 1060-B, 1-39;		
Date of Start of Analysis	11.02.2018	Date of Completion of Analysis	26.02.2018
Water Level Depth	-		

Sr. No.	Parameter	Unit	Result	Inland Surface water (EPA rule 1986)	Method Reference
1.	Colour	Hazen	<1	-	APHA 22 nd 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	1.5	-	APHA 22 nd Ed. 2012, 2130-B, 2-13
5.	pH	-	7.8	5.5 to 9.0	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92
6.	Total Dissolved Solids	mg/L	458	-	IS 3025 (Part 16):1984, RA 2006
7.	Suspended Solids	mg/L	48	100 Max.	APHA 22 nd Ed. 2012, 2540-D, 2-66
8.	Residual Free Chlorine	ppm	N.D.	1.0 Max.	APHA 22 nd Ed. 2012, 4500-Cl G, 4-69
9.	Total Hardness (as CaCO ₃)	mg/L	268	-	APHA 22 nd Ed. 2012, 2340-C, 2-44, 45
10.	Alkalinity Total (as CaCO ₃)	mg/L	242	-	IS 3025 (Part 23):1986 Reaffirmed 2009
11.	Chloride(as Cl)	mg/L	18.8	-	APHA 22 nd Ed. 2012, 4500-Cl ⁻ B, 4-72
12.	Sulphate (as SO ₄)	mg/L	17.2	-	APHA 22 nd Ed. 2012, 4500- SO ₄ -E, 4-190

Report No.3649 Cont...

Sr. No.	Parameter	Unit	Result	Inland Surface water (EPA rule 1986)	Method Reference
13.	Nitrate (as NO ₃)	mg/L	24.2	-	APHA 22 nd Ed. 2012, 4500-NO ₃ -E, 4-125
15.	Calcium (as Ca)	mg/L	45.6	-	APHA 22 nd Ed. 2012, 3500-Ca-B, 3-67
14.	Magnesium (as Mg)	mg/L	37.4	-	APHA 22 nd Ed. 2012, 3500-Mg-B, 3-84
16.	Fluoride(as F)	mg/L	0.314	2.0 Max.	APHA 22 nd Ed. 2012, 4500-F ⁻ B & D, 4-84, 6-87
17.	Boron(as B)	mg/L	<0.1	-	APHA 22 nd Ed.2012, 4500-B B,4-25
18.	Dissolved Oxygen	mg/L	5.5	-	APHA 22 nd 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	0.378	3.0 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
21.	Manganese (as Mn)	mg/L	<0.04	2.0 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
22.	Cadmium (as Cd)	mg/L	N.D.	2.0 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
23.	Copper (as Cu)	mg/L	N.D.	3.0 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
24.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	0.1 Max.	APHA 22 nd Ed. 2012, 3500- Cr-B, 3-69
25.	Lead (as Pb)	mg/L	N.D.	0.1 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
26.	Zinc (as Zn)	mg/L	0.015	5.0 Max.	APHA 22 nd Ed. 2012, 3111-B, 3-18
27.	Arsenic (as As)	mg/L	N.D.	0.2 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
28.	Mercury (as Hg)	mg/L	N.D.	0.01 Max.	APHA 22 nd Ed. 2012, 3112-B, 3-23
29.	Selenium (as Se)	mg/L	N.D.	0.05 Max.	APHA 22 nd Ed. 2012, 3114-C, 3-38
30.	Aluminium (as Al)	mg/L	0.025	-	APHA 22 nd Ed. 2012, 3500-Al-B, 3-61
31.	Cyanide (as CN)	mg/L	N.D.	0.2 Max.	APHA 22 nd Ed. 2012, 4500-CN, C & E, 4-39 & 4-44
32.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	1.0 Max.	APHA 22 nd 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.


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