



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

Test Report

Report No.: ME-NG06111-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
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
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005723F

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
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)	157			
Load (MW)	251			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	121	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1212618	-	IS 11255 (Part 3):2008

Report No.06111 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	48	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	570	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16589	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	274	-	IS 11255 (Part 7):2005

Remark: # : Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole
BRANCH MANAGER



Note:

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ULR- TC748721000005723F



Certificate Number TC-1497

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QF/SAL/04/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00



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Report No.: ME-NG06111-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #1	Sample Quantity/Packing	Analyser
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	15.04.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
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)		157		
Load (MW)		251		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	121	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1212618	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: # : Limit as per MPCB Consent				

-----END-----

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QF/SALE/04/Issue No 03 Dt 05.12.2019.Amd 00 Dt 00

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



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		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
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
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005724F

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
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)	153			
Load (MW)	239			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192772	-	IS 11255 (Part 3):2008

Report No.06112 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	34	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	575	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16460	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	291	-	IS 11255 (Part 7):2005

Remark: # : Limit as per MPCB Consent

-----END-----

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		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #2	Sample Quantity/Packing	Analyser
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
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)		153		
Load (MW)		239		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192772	-	IS 11255 (Part 3):2008
CO ₂	%	13.1	-	Analyser Method
Remark: # : Limit as per MPCB Consent				

-----END-----

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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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
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
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005725F

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
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)	106			
Load (MW)	190			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	126	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1201705	-	IS 11255 (Part 3):2008

Report No.06113 cont..

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	44	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	17016	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	296	-	IS 11255 (Part 7):2005

Remark: # : Limit as per MPCB Consent

-----END-----

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		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #3	Sample Quantity/Packing	Analyser
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
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)	167			
Load (MW)	268			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	^o C	126	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1201705	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Test Report

Report No.: ME-NG06114-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#4	Sample Quantity/Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005726F

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity	Boiler Unit#4			
Stack attached to	ESP of Boiler U#4			
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)	104			
Load (MW)	190			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.6	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192096	-	IS 11255 (Part 3):2008



Report No.06114 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	41	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	588	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16823	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	293	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #4	Sample Quantity/Packing	Analyser
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity		Boiler Unit 4		
Stack attached to		ESP of Boiler U#4		
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)		150		
Load (MW)		260		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.6	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192096	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: # : Limit as per MPCB Consent				

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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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
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
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005727F

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
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)	104			
Load (MW)	188			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	124	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1186764	-	IS 11255 (Part 3):2008



Report No.06115 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	40	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	584	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16637	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	288	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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Report No.: ME-NG06115-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #5	Sample Quantity/Packing	Analyser
Date of Sampling	08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
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)		152		
Load (MW)		264		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	124	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1186764	-	IS 11255 (Part 3):2008
CO ₂	%	12.2	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Kishor Yeole
BRANCH MANAGER



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



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Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

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

Phone : 91-712-2612162, 2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06116-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Near Site Office 2) Terrace of WTP Plant 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 : 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. Gas Bladder
Date of Sampling	07.04.2021 to 08.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	As per Method reference		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005728F

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	1) Near Site Office			Duration of Survey: 24 hours
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Sulphur Dioxide (SO ₂)	µg/m ³	11.6	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	19.2	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	65	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	29	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. 06116 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
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	0.97	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	1.06	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	0.38	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	3.46	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Location	2) Terrace of WTP Plant			Duration of Survey: 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	12.5	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	15.4	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	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	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
Carbon Monoxide (CO)	mg/m ³	1.08	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	1.07	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	4.70	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000005728F

Report No. 06116 Cont...

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	13.4	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	13.1	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	58	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	26	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	1.02	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	1.11	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	0.356	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	4.08	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Remarks: 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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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
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Test Report

Report No.: ME-NG06097-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Kapustalani	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005004F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	2.7	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.5	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	581	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	224	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	380	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	59.2	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No.06097 cont..

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	102	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	44.2	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	89.0	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	38.4	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.512	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.042	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.171	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.043	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.019	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

-END-

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ULR- TC748721000005004F



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Test Report

Report No.: ME-NG06097-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Kapustalani	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Test Report

Report No.: ME-NG06100-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Talkhanda	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005712F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.7	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.8	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	482	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	312	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	47.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No.06100 cont..

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	37.4	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	43.6	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	99.4	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	15.6	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.615	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.039	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.198	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.022	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.021	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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QF/SALE/02/Issue No 03 Dt 05.12.2019.Amd 00 Dt 00

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- TC748721000005712F



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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 : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06100-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Talkhanda	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole
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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagapur-441111
 Phone : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06098-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Pimpalvirgaon Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005710F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.0	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.8	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	422	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	306	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	322	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	14.3	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No. 06098 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	21.9	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	3.54	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	86.0	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	26.2	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.602	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.036	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.1	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.211	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.022	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.025	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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

ULR- TC748721000005710F



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 : 91-712-2612162,2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06098-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Pimpalvihirgaon Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Phone : 91-712-2612162,2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06101-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Wagholi	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005713F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	2.3	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.8	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	479	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	144	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	304	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	51.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No.06101 cont..

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	140	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	26.6	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	96.2	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	15.6	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.605	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.036	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.198	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.022	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.021	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

ULR- TC748721000005713F

END

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Test Report

Report No.: ME-NG06101-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Wagholi	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Kishor C. Yeole

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 (600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 thane@mahabal.com



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

Phone : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06105-210420-SA-RIPL-AMRAVATI			Date: 20.04.2021		
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by		Laboratory	
Sampling Location	Borewell water of Digargaon	Sample Quantity/Packing		2 L X 1 No. PVC Can 500mL X 1 No. PVC Can	
Date of Sampling	07.04.2021	Date of Receipt of Sample		08.04.2021	
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;				
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis		20.04.2021	

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	2.7	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.4	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	798	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	412	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	592	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	103	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005717F

Report No. 06105 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	102	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	40.8	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	148	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	53.9	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.621	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.042	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.185	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.013	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.025	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

ULR- TC748721000005717F

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



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 : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06105-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Borewell water of Digargaon	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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Test Report

Report No.: ME-NG06102-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
	Sample Description/Type	Ground Water/Grab	Sample Collected by Laboratory
Sampling Location	Well Water Rasalpur Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

END

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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162,2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG06099-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005711F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.8	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.9	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	591	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	6	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	322	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	368	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	55.1	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75



Report No.06099 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	42.3	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	48.5	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	92.2	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	33.5	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.629	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.033	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.2	-	-	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
Residues in water (Trace metal Element)						
20	Iron (as Fe)	mg/L	0.238	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21	Manganese (as Mn)	mg/L	0.017	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
23	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Zinc (as Zn)	mg/L	0.014	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
29	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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ULR- TC748721000005711F



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

Report No.: ME-NG06099-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Tesing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

END

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Kishor C. Yeole

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Phone : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Water Sample Analysis Report

Report No.: ME-NG06102-210420-SA-RIPL-AMRAVATI			Date: 20.04.2021		
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory		
Sampling Location	Well Water Rasalpur Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can		
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021		
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;				
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021		

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.7	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	8.0	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	560	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	400	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	268	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	13.3	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005714F

Report No. 06102 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	5.52	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	43.9	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	70.5	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	22.4	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.620	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.036	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.2	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.185	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.017	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.021	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

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Test Report

Report No.: ME-NG06102-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Rasalpur Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

END

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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162 **T/Fax** : 91-712-2612212 **Email** : nagpur@mahabal.com

Test Report

Report No.: ME-NG06103-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Malegaon Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005011F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	NA	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	1.9	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	8.1	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	253	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	11	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	166	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	180	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	29.6	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	13.5	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13.	Nitrate (as NO ₃)	mg/L	0.310	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	36.1	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	22.0	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.499	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.036	APHA 23 rd Ed. 2017, 4500-B B, 4-27

Report No.06103 Cont..

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.4	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)				
19.	Iron (as Fe)	mg/L	0.025	APHA 23 rd Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	0.038	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 rd Ed. 2017, 3500-AI-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.019	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
28.	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected; NA: Not Applicable				

-----END-----

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Test Report

Report No.: ME-NG06103-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Malegaon Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected;				

-----END-----

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Test Report

Report No.: ME-NG06104-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Wagholi Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

ULR- TC748721000005012F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	NA	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.9	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	8.0	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	380	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	8	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	156	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	292	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	49.0	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	94.4	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13.	Nitrate (as NO ₃)	mg/L	0.281	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	56.1	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	36.9	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.589	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.042	APHA 23 rd Ed. 2017, 4500-B B, 4-27

Report No.06104 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.3	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)				
19.	Iron (as Fe)	mg/L	0.252	APHA 23 rd Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	0.034	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.027	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
28.	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected; NA: Not Applicable				

-----END-----

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Test Report

Report No.: ME-NG06104-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Wagholi Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	09.04.2021	Date of Completion of Analysis	20.04.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected;				

-----END-----

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Test Report

Report No.: ME-NG06110-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	1.STP Plant Outlet 2.STP Colony Outlet	Sample Quantity/Packing	2 L X 2 No. PVC Can 100mL X 2 No. PVC Can
Date of Sampling	07.04.2021	Date of Receipt of Sample	08.04.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	08.04.2021	Date of Completion of Analysis	15.04.2021

ULR- TC748721000005722F

Sr. No.	Parameter	Unit	Result		Limit as per MPCB Consent	Method Reference
			1	2		
Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)						
1	pH	-	6.2	6.8	-	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.7	7.3	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
3	Chemical Oxygen Demand	mg/L	28	24	100 Max.	APHA 23 rd Ed. 2017, 5220-B, 5-18
Remarks:						

END

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Test Report

Report No.: ME-NG06119-210420-SA-RIPL-AMRAVATI		Date: 20.04.2021	
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. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Noise Level Monitoring	Sample Collected by	NA
Date of Sampling	08.04.2021 to 09.04.2021		
Sampling Procedure	IS 9876:1981 & manufacturer Manual		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution Source Noise (Excluding Vibrations)			
Location	Unit	Result	
		Max.	Min.
Near Main Gate	dB(A)	65.1	62.3
Near Compressor Room	dB(A)	66.3	63.9
Near CHP Crusher House	dB(A)	67.3	61.9
Near Colony	dB(A)	63.6	58.8
Turbine area No. 3 & 4	dB(A)	73.1	70.8
Limit as per The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV			
Total time of exposure per day, in hours.		Max. Sound pressure level in dB (A)	
8		90	
6		92	
4		95	
3		97	
2		100	
1 ½		102	
1		105	
¾		107	
½		110	
¼		115	
Remark :			

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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