



# 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.Nagpur-441111

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17995-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit#1	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		149		
Load (MW)		266		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1229961	-	IS 11255 (Part 3):2008

U/LR- TC748720000017308F

Report No.17995 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	36	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	588	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	17357	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	240	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole

**BRANCH MANAGER**



Note:

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Certificate Number TC-7487



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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17995-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901.		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #1	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		149		
Load (MW)		266		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1229961	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.2	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

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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](mailto:thane@mahabal.com)**



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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG16699-201212-SA-RIPL-AMRAVATI		<b>Date:</b> 12.12.2020	
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit 2	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	12.12.2020

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		148		
Load (MW)		270		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1222172	-	IS 11255 (Part 3):2008

ULR- TC748720000016064F

Report No.16699 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	41	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	573	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16807	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	212	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG16699-201212-SA-RIPL-AMRAVATI		<b>Date:</b> 12.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901.		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #2	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	12.12.2020

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		148		
Load (MW)		270		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1222172	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.8	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17996-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit#2	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		150		
Load (MW)		266		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	123	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1253314	-	IS 11255 (Part 3):2008

U/LR- TC748720000017309F

Report No.17996 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	25	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	594	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	17867	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	290	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

-----END-----

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			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #2	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)	150			
Load (MW)	266			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	123	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1253314	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.5	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

-----END-----

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		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit#3	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		150		
Load (MW)		264		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	117	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1212363	-	IS 11255 (Part 3):2008

U/LR- TC748720000017310F

Report No.17997 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	28	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	590	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	17167	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	284	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #3	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		150		
Load (MW)		264		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	117	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1212363	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.3	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



Note:

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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](mailto:thane@mahabal.com)**



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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17998-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit#4	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		156		
Load (MW)		270		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	120	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.6	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1249598	-	IS 11255 (Part 3):2008

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Report No.17998 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	22	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	585	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	17544	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	265	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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Certificate Number TC-7487



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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17998-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901.		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #4	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		156		
Load (MW)		270		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	120	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.6	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1249598	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.7	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17999-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit#5	<b>Sample Quantity/Packing</b>	Thimble:1 X 1 No. SO <sub>2</sub> :30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1No. PVC Bottle
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

### Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)

<b>Stack Details</b>		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)		147		
Load (MW)		238		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	116	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1224066	-	IS 11255 (Part 3):2008

U/LR- TC748720000017312F



Report No.17999 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	40	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	574	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16863	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	269	-	IS 11255 (Part 7):2005

**Remark: #** : Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG17999-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901.		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Stack Emission Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Boiler Unit #5	<b>Sample Quantity/Packing</b>	Analyser
<b>Date of Sampling</b>	28.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
<b>Stack Details</b>		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)		147		
Load (MW)		238		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	116	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1224066	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.4	-	Analyser Method
<b>Remark: # : Limit as per MPCB Consent</b>				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
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## Ambient Air Quality Monitoring Report

<b>Report No.:</b> ME-NG16679-201217-SA-RIPL-AMRAVATI		<b>Date:</b> 17.12.2020	
<b>Name and address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ambient Air Quality Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	1) Near Site Office 2) Terrace of WTP Plant 3) Terrace of Bachelor Guest House	<b>Sample Quantity/Packing</b>	Filter Paper (PM <sub>10</sub> ): 3 X 3 No. Filter Paper (PM <sub>2.5</sub> ): 1 X 3 No. SO <sub>2</sub> : 30mL X18 No. PVC Bottle NO <sub>2</sub> : 30mL X18 No. PVC Bottle NH <sub>3</sub> : 10 mL X72 No. PVC Bottle O <sub>3</sub> : 10 mL X 72 No. PVC Bottle 3 X 6 No. Charcoal Tubes 3 X 3 No. Gas Bladder
<b>Date of Sampling</b>	07.12.2020 to 08.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	12.12.2020

Parameter	Unit	Result	#NAAQM Standard	Method Reference
<b>Location</b>	1) Near Site Office		<b>Duration of Survey:</b> 24 hours	
<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b>				
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	13.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	17.6	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 <sub>10</sub>	µg/m <sup>3</sup>	59	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 <sub>2.5</sub>	µg/m <sup>3</sup>	19	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

ULR- TC748720000016044F

**Report No. 16679 Cont...**

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	µg/m <sup>3</sup>	<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 <sup>3</sup>	0.88	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	21.7	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.13	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	3.1	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	2) Terrace of WTP Plant			<b>Duration of Survey: 24 hours</b>
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	12.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.2	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 <sub>10</sub>	µg/m <sup>3</sup>	48	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 <sub>2.5</sub>	µg/m <sup>3</sup>	17	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	0.79	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	20.7	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.14	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	0.37	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	4.8	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748720000016044F

*Report No. 16679 Cont...*

Parameter	Unit	Result	#NAAQM Standard	Method Reference
<b>Location</b>	3) Terrace of Bachelor Guest House			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	18.3	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 <sub>10</sub>	µg/m <sup>3</sup>	54	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 <sub>2.5</sub>	µg/m <sup>3</sup>	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	0.96	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.07	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	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 <sup>3</sup>	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Remarks:</b> TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

ULR- TC748720000016044F

 -----END-----  
 FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
 Kishor C. Yeole

**BRANCH MANAGER**


Certificate Number TC-7487

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**Phone :** 91-712-2612162 **T/Fax:** 91-712-2612212 **Email:** [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Ambient Air Quality Monitoring Report

<b>Report No.:</b> ME-NG17992-210105-SA-RIPL-AMRAVATI		<b>Date:</b> 05.01.2021	
<b>Name and address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ambient Air Quality Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	1) Village Kapustalani 2) Village Dawargaon 3) Village Wagholi	<b>Sample Quantity/Packing</b>	Filter Paper (PM <sub>10</sub> ): 3 X 3 No. Filter Paper (PM <sub>2.5</sub> ): 1 X 3 No. SO <sub>2</sub> : 30mL X18 No. PVC Bottle NO <sub>2</sub> : 30mL X18 No. PVC Bottle NH <sub>3</sub> : 10 mL X72 No. PVC Bottle O <sub>3</sub> : 10 mL X 72 No. PVC Bottle 3 X 6 No. Charcoal Tubes 3 X 3 No. Gas Bladder
<b>Date of Sampling</b>	28.12.2020 to 29.12.2020	<b>Date of Receipt of Sample</b>	29.12.2020
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	29.12.2020	<b>Date of Completion of Analysis</b>	05.01.2021

Parameter	Unit	Result	#NAAQM Standard	Method Reference
<b>Location</b>	1) Village Kapustalani			<b>Duration of Survey:</b> 24 hours
<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b>				
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	12.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	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 <sub>2.5</sub>	µg/m <sup>3</sup>	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<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 <sup>3</sup>	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748720000017305F



Report No.17792 Cont..

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.86	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	24.1	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.04	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	3.84	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	2) Village Dawargaon			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	13.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	15.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	57	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 <sub>2.5</sub>	µg/m <sup>3</sup>	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	0.83	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.03	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	0.33	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	3.1	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748720000017305F

**Report No.17792 Cont..**
**ULR- TC748720000017305F**

Parameter	Unit	Result	#NAAQM Standard	Method Reference
<b>Location</b>	3) Village Wagholi			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.2	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 <sub>10</sub>	µg/m <sup>3</sup>	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 <sub>2.5</sub>	µg/m <sup>3</sup>	19	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<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 <sup>3</sup>	<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 <sup>3</sup>	0.95	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	21.7	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.09	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<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 <sup>3</sup>	0.4	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	4.6	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Remarks:</b> TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel..				

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**FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.**

**Kishor C. Yeole**  
**BRANCH MANAGER**

**Note:**

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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**Certificate Number TC-7487**
*Page 3 of 3*
*QF/SALE/03/Issue No 03 Dt 05.12.2019,Amd 01 Dt 01.03.2020*

**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**





# 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](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16690-201220-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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	1.2	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.6	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	530	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	288	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	362	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	31.2	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75



Report No. 16690 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 <sub>4</sub> )	mg/L	83.0	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	44.2	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	92.2	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	32.1	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.519	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.147	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	<0.1	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.015	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Certificate Number TC-7487

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Page 2 of 2

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

ULR- TC7487200000016055F



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors  
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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16690-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

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

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16689-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well Water Rasalpur Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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	1.7	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.7	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	570	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	446	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	242	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	13.1	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

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Report No. 16689 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 <sub>4</sub> )	mg/L	10.5	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	43.4	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	52.1	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	27.2	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.506	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.8	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.107	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	<0.01	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Certificate Number TC-7487

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Page 2 of 2

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- TC7487200000016054F



# 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](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16689-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well Water Rasalpur Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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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](mailto:thane@mahabal.com)**



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16688-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Talkhanda	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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	1.3	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.9	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	370	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	258	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	270	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	17.1	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748720000016053F



Report No.16688 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 <sub>4</sub> )	mg/L	38.4	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	15.4	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	44.9	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	38.4	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.487	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.127	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.023	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

ULR- TC7487200000016053F

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Certificate Number TC-7487

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16688-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Talkhanda	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



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**Phone** : 91-712-2612162,2612212 **Email**: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16686-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Kapustalani	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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	0.5	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.9	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	516	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	258	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	324	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	59.4	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC74872000016051F



Report No. 16686 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 <sub>4</sub> )	mg/L	98.0	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	21.2	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	76.2	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	32.6	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.435	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.2	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.190	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	<0.04	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.031	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Certificate Number TC-7487

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ULR- TC748720000016051F



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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16686-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Kapustalani	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

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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](mailto:thane@mahabal.com)**



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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors  
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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16685-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Wagholi	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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	1.5	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	8.0	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	596	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	144	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	378	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	55.4	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748720000016050F



Report No. 16685 cont...

ULR- TC7487200000016050F

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 <sub>4</sub> )	mg/L	204	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	21.2	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	97.0	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	33.0	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.492	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.207	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.019	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16685-201230-SA-RIPL-AMRAVATI		<b>Date:</b> 30.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well water of Wagholi	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16691-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Borewell water of Digargaon	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.5	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	713	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 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	354	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	520	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	95.6	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748720000016056F





Report No. 16691 cont...

ULR- TC7487200000016056F

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 <sub>4</sub> )	mg/L	88.0	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	43.9	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (as Ca)	mg/L	140	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	41.3	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.513	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.9	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>						
19	Iron (as Fe)	mg/L	0.197	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.042	5 Max.	15 Max.	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Certificate Number TC-7487

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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16691-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Borewell water of Digargaon	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

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**Phone :** 91-712-2612162 **T/ Fax:** 91-712-2612212 **Email:** [nagpur@mahabal.com](mailto:nagpur@mahabal.com)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16683-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Malegaon Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

ULR- TC748720000016048F

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b>				
1.	Colour	Hazen	<1	APHA 23 <sup>rd</sup> 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	1.5	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5.	pH	-	8.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	440	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	82.0	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	260	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	38.2	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	21.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.474	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	50.5	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	32.6	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.409	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27



Report No.16683 Cont..

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.7	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>				
19.	Iron (as Fe)	mg/L	0.117	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-AI-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.029	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable				

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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16683-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Malegaon Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b>				
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected;				

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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16684-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Wagholi Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b>				
1.	Colour	Hazen	<1	APHA 23 <sup>rd</sup> 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	0.35	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5.	pH	-	8.2	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	391	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	118	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	266	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	37.2	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	150	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.456	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	51.3	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	33.5	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.383	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27



Report No.16684 Cont..

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.6	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
<b>Residues in water (Trace metal Element)</b>				
19.	Iron (as Fe)	mg/L	0.217	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.031	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
<b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG16684-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Wagholi Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
<b>Date of Sampling</b>	07.12.2020	<b>Date of Receipt of Sample</b>	08.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b>				
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 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50
<b>Residues in water (Trace metal Element)</b>				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95
<b>Remarks:</b> N.D.: Not Detected;				

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## Effluent Sample Analysis Report

<b>Report No.:</b> ME-NG16697-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b> SO No. 3382017462 Dt.16.08.2019
	<b>Sample Description/Type</b>	Domestic Effluent	<b>Sample Collected by</b> Laboratory
<b>Sampling Location</b>	1.STP Plant Outlet 2.STP Colony Outlet	<b>Sample Quantity/Packing</b>	2 L X 2 No. PVC Can 100mL X 2 No. PVC Can
<b>Date of Sampling</b>	07.12.200	<b>Date of Receipt of Sample</b>	18.12.2020
<b>Sampling Procedure</b>	IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	08.12.2020	<b>Date of Completion of Analysis</b>	18.12.2020

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Sr. No.	Parameter	Unit	Result		Limit as per MPCB Consent	Method Reference
			1	2		
<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>						
1	pH	-	7.7	7.8	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2	Biochemical Oxygen Demand (3 days 27°C)	mg/L	12.3	6.2	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
3	Chemical Oxygen Demand	mg/L	40	20	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
<b>Remarks:</b>						

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**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



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## Noise Level Monitoring Report

<b>Report No.:</b> ME-NG16682-201218-SA-RIPL-AMRAVATI		<b>Date:</b> 18.12.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Noise Level Monitoring	<b>Sample Collected by</b>	NA
<b>Date of Sampling</b>	07.12.2020 to 08.12.2020		
<b>Sampling Procedure</b>	IS 9876:1981 & manufacturer Manual		

<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution Source Noise (Excluding Vibrations)</b>			
<b>Location</b>	<b>Unit</b>	<b>Result</b>	
		<b>Max.</b>	<b>Min.</b>
Near Main Gate	dB(A)	63.6	60.2
Near Compressor Room	dB(A)	63.5	61.1
Near CHP Crusher House	dB(A)	65.1	62.3
Near Colony	dB(A)	62.8	60.7
Turbine area No. 3 & 4	dB(A)	65.5	61.2
<b>Limit as per The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV</b>			
<b>Total time of exposure per day, in hours.</b>		<b>Max. Sound pressure level in dB (A)</b>	
8		90	
6		92	
4		95	
3		97	
2		100	
1 1/2		102	
1		105	
3/4		107	
1/2		110	
1/4		115	
<b>Remark :</b>			

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