



# 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, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG09792-210716-SA-RIPL-AMRAVATI		<b>Date:</b> 16.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021	<b>Date of Receipt of Sample</b>	07.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	07.07.2021	<b>Date of Completion of Analysis</b>	12.07.2021

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

<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)	154			
Load (MW)	265			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	124	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1211485	-	IS 11255 (Part 3):2008

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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 WP: 8928346894 [thane@mahabal.com](mailto:thane@mahabal.com)**

ULR- TC748721000009184F

Report No.09792 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	30	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	546	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	15875	52320	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
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.2	-	IS 5182 (Part 10) NDIR Method

**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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## Test Report

<b>Report No.:</b> ME-NG09793-210716-SA-RIPL-AMRAVATI		<b>Date:</b> 16.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021	<b>Date of Receipt of Sample</b>	07.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	07.07.2021	<b>Date of Completion of Analysis</b>	12.07.2021

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

<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)	265			
<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	29.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1221773	-	IS 11255 (Part 3):2008

ULR- TC748721000009185F



Report No.09793 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	34	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	550	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16127	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	285	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.8	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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TC-7487



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## Test Report

<b>Report No.:</b> ME-NG09795-210716-SA-RIPL-AMRAVATI		<b>Date:</b> 16.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021	<b>Date of Receipt of Sample</b>	07.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	07.07.2021	<b>Date of Completion of Analysis</b>	12.07.2021

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

<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)	148			
Load (MW)	269			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	126	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	30.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1238262	-	IS 11255 (Part 3):2008

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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 WP: 8928346894 [thane@mahabal.com](mailto:thane@mahabal.com)**

ULR- TC748721000009187F


Report No.09795 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	35	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	17474	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	288	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	13.2	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole  
**BRANCH MANAGER**



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## Test Report

<b>Report No.:</b> ME-NG09794-210716-SA-RIPL-AMRAVATI		<b>Date:</b> 16.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021	<b>Date of Receipt of Sample</b>	07.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	07.07.2021	<b>Date of Completion of Analysis</b>	12.07.2021

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

<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)	142			
Load (MW)	240			
<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	28.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1183672	-	IS 11255 (Part 3):2008

ULR- TC748721000009186F

Report No.09794 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	34	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	586	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16647	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	276	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.1	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
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## Test Report

<b>Report No.:</b> ME-NG09796-210712-SA-RIPL-AMRAVATI		<b>Date:</b> 12.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021	<b>Date of Receipt of Sample</b>	07.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	07.07.2021	<b>Date of Completion of Analysis</b>	12.07.2021

### 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)	152			
Load (MW)	268			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	127	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1227069	-	IS 11255 (Part 3):2008

ULR- TC748721000009188F

Report No.09796 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>	504	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	14843	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	277	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.8	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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## Test Report

<b>Report No.:</b> ME-NG10845-210731-SA-RIPL-AMRAVATI		<b>Date:</b> 31.07.2021	
<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. 3382019103 Dt.17.05.2021
<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 CO: 1 x 1 No Bladder
<b>Date of Sampling</b>	27.07.2021	<b>Date of Receipt of Sample</b>	27.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	27.07.2021	<b>Date of Completion of Analysis</b>	30.07.2021

<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/d)		126.8		
Load (MW)		177		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	112	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1147378	-	IS 11255 (Part 3):2008

ULR- TC748721000010181F



Report No.10845 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	45	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	16191	52320	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
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	13.2	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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## Test Report

<b>Report No.:</b> ME-NG10846-210731-SA-RIPL-AMRAVATI		<b>Date:</b> 31.07.2021	
<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. 3382019103 Dt.17.05.2021
<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 CO: 1 x 1 No Bladder
<b>Date of Sampling</b>	27.07.2021	<b>Date of Receipt of Sample</b>	27.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	27.07.2021	<b>Date of Completion of Analysis</b>	30.07.2021

<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/d)		120		
Load (MW)		180		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	113	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1152828	-	IS 11255 (Part 3):2008

ULR- TC748721000010182F

Report No.10846 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	50	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	584	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16158	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	286	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.8	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole  
**BRANCH MANAGER**



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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ULR- TC748721000010182F



TC-7487





# 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, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG10847-210731-SA-RIPL-AMRAVATI		<b>Date:</b> 31.07.2021	
<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. 3382019103 Dt.17.05.2021
<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 CO: 1 x 1 No Bladder
<b>Date of Sampling</b>	27.07.2021	<b>Date of Receipt of Sample</b>	27.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	27.07.2021	<b>Date of Completion of Analysis</b>	30.07.2021

<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/d)		125		
Load (MW)		180		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	110	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.7	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1174509	-	IS 11255 (Part 3):2008

ULR- TC748721000010183F

Report No.10847 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>	590	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16631	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	276	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.2	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG10848-210731-SA-RIPL-AMRAVATI		<b>Date:</b> 31.07.2021	
<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. 3382019103 Dt.17.05.2021
<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 CO: 1 x 1 No Bladder
<b>Date of Sampling</b>	27.07.2021	<b>Date of Receipt of Sample</b>	27.07.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	27.07.2021	<b>Date of Completion of Analysis</b>	30.07.2021

### 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/d)		119.3		
Load (MW)		177		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	111	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1150343	-	IS 11255 (Part 3):2008

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Report No.10848 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	45	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	582	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16068	52320	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	294	-	IS 11255 (Part 7):2005
Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	12.6	-	IS 5182 (Part 10) NDIR Method

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



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Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG09798-210720-SA-RIPL-AMRAVATI		<b>Date:</b> 20.07.2021	
<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. 3382019103 Dt.17.05.2021
<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>	07.07.2021 to 08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	08.07.2021	<b>Date of Completion of Analysis</b>	14.07.2021

ULR- TC748721000009190F

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>	11.1	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>	14.1	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 <sub>10</sub>	µg/m <sup>3</sup>	55	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <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



Report No. 09798 Cont...

ULR- TC748721000009190F

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>	1.13	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>	1.13	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	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:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	8.5	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>	14.9	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>	60	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>	0.95	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>	1.11	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>	3.49	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55



Report No. 09798 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>	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>	17.4	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 <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>	20	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>	20.8	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>	1.12	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>	0.307	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>	5.21	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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END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Kishor C. Yeole

**BRANCH MANAGER**


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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 WP: 8928346894 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.Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG10844-210802-SA-RIPL-AMRAVATI		<b>Date:</b> 02.08.2021	
<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. 3382019103 Dt.17.05.2021	
<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>	26.07.2021 to 27.07.2021	<b>Date of Receipt of Sample</b>	27.07.2021
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	27.07.2021	<b>Date of Completion of Analysis</b>	02.08.2021

ULR- TC748721000010180F

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>	11.1	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>	14.6	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>	62	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>	20	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

Page 1 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 WP: 8928346894 [thane@mahabal.com](mailto:thane@mahabal.com)**





Report No.10844 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.76	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>	1.05	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>	0.311	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>	3.40	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>	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>	13.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	62	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>	0.72	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>	1.02	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	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000010180F





Report No.10844 Cont...

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>	11.9	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>	16.1	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 <sub>10</sub>	µg/m <sup>3</sup>	67	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>	24	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>	0.76	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>	1.09	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>	<0.3	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	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- TC748721000010180F

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Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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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 WP: 8928346894 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.Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG09810-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Well Water Back Side Of Ash Dyke	<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	2.1	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	7.8	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI G, 4-72
6	Total Dissolved Solids	mg/L	479	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	6	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	252	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	390	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	29	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	86	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

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Report No. 09810 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	Nitrate (as NO <sub>3</sub> )	mg/L	37.7	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	72.1	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	51.0	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.588	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.7	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.319	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	Manganese (as Mn)	mg/L	0.040	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09810 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	
28	Zinc (as Zn)	mg/L	0.071	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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TC-7487



# Mahabal Enviro Engineers Pvt. Ltd.

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Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG09811-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Village 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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	1.1	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	7.7	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	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
6	Total Dissolved Solids	mg/L	500	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	7.8	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	268	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	382	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	27	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	74.4	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

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Report No. 09811 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	Nitrate (as NO <sub>3</sub> )	mg/L	37.2	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	60.9	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	55.9	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.616	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.305	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	Manganese (as Mn)	mg/L	0.059	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09811 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	
28	Zinc (as Zn)	mg/L	0.063	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Note:

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TC-7487



# Mahabal Enviro Engineers Pvt. Ltd.

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## Test Report

<b>Report No.:</b> ME-NG09813-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Village Digargaon (Borewell Water)	<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	5.1	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	8.4	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	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
6	Total Dissolved Solids	mg/L	450	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	<5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	272	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	244	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	28	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	48.8	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

ULR- TC748721000009205F



Report No. 09813 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	Nitrate (as NO <sub>3</sub> )	mg/L	28.8	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	56.9	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	27.8	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.588	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.246	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	Manganese (as Mn)	mg/L	0.059	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09813 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	
28	Zinc (as Zn)	mg/L	0.102	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Note:

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TC-7487



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors  
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## Test Report

<b>Report No.:</b> ME-NG09814-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Village Kapustalni (Well Water)	<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	2.0	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	8.0	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	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
6	Total Dissolved Solids	mg/L	460	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	<5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	248	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	344	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	26	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	90.8	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

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Report No. 09814 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	Nitrate (as NO <sub>3</sub> )	mg/L	37.7	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	42.5	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	57.8	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.579	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.275	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	Manganese (as Mn)	mg/L	0.050	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09814 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	
28	Zinc (as Zn)	mg/L	0.073	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Note:

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TC-7487



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## Test Report

<b>Report No.:</b> ME-NG09815-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Village Rasalpur (Well Water)	<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	2.5	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	7.5	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	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
6	Total Dissolved Solids	mg/L	400	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	<5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	320	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	246	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	12	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	17.7	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

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Report No. 09815 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	Nitrate (as NO <sub>3</sub> )	mg/L	25.2	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	65.7	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	19.9	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.551	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.232	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	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
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09815 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	
28	Zinc (as Zn)	mg/L	0.068	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Note:

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TC-7487



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## Test Report

<b>Report No.:</b> ME-NG09816-210721-SA-RIPL-AMRAVATI				<b>Date:</b> 21.07.2021		
<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. 3382019103 Dt.17.05.2021	
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory			
<b>Sampling Location</b>	Well Water Pimpalvihirgaon 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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021			
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021			
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	
<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	Turbidity	NTU	1.1	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4	pH	-	8.0	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5	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
6	Total Dissolved Solids	mg/L	298	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
7	Total Suspended Solids	mg/L	<5	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	252	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9	Total Hardness (as CaCO <sub>3</sub> )	mg/L	274	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10	Chloride (as Cl)	mg/L	14	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11	Sulphate (as SO <sub>4</sub> )	mg/L	25.3	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

ULR- TC748721000009208F



Report No. 09816 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	Nitrate (as NO <sub>3</sub> )	mg/L	1.77	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13	Calcium (as Ca)	mg/L	23.2	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	52.5	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.532	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16	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
17	Dissolved Oxygen	mg/L	6.2	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19	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
20	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>						
21	Iron (as Fe)	mg/L	0.290	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22	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
23	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
24	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No. 09816 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	
28	Zinc (as Zn)	mg/L	0.084	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95

Remarks: N.D.: Not Detected

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,  
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Phone : 91-712-2612162, 2612212, WP:9326279040 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Test Report

<b>Report No.:</b> ME-NG09808-210721-SA-RIPL-AMRAVATI		<b>Date:</b> 21.07.2021	
<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. 3382019103 Dt.17.05.2021	
<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021

ULR- TC748721000009200F

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.	Turbidity	NTU	2.1	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	8.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5.	Residual Free Chlorine	mg/L	<0.05	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
6.	Total Dissolved Solids	mg/L	389	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
7.	Total Suspended Solids	mg/L	10	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	88	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	288	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10.	Chloride (as Cl)	mg/L	53	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11.	Sulphate (as SO <sub>4</sub> )	mg/L	154	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
12.	Nitrate (as NO <sub>3</sub> )	mg/L	0.328	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13.	Calcium (as Ca)	mg/L	65.7	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14.	Magnesium (as Mg)	mg/L	30.1	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15.	Fluoride (as F)	mg/L	0.505	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27



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## Test Report

<b>Report No.:</b> ME-NG09809-210721-SA-RIPL-AMRAVATI		<b>Date:</b> 21.07.2021	
<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. 3382019103 Dt.17.05.2021	
<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>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021
<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>	08.07.2021	<b>Date of Completion of Analysis</b>	21.07.2021

ULR- TC748721000009201F

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.	Turbidity	NTU	1.9	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	7.7	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5.	Residual Free Chlorine	mg/L	<0.05	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
6.	Total Dissolved Solids	mg/L	418	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
7.	Total Suspended Solids	mg/L	7	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	76	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	304	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10.	Chloride (as Cl)	mg/L	53	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11.	Sulphate (as SO <sub>4</sub> )	mg/L	177	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
12.	Nitrate (as NO <sub>3</sub> )	mg/L	0.292	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13.	Calcium (as Ca)	mg/L	64.1	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14.	Magnesium (as Mg)	mg/L	35.0	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15.	Fluoride (as F)	mg/L	0.551	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
16.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27





Report No.09809 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
17.	Dissolved Oxygen	mg/L	6.4	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19.	Cyanide (as CN)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
20.	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>				
21.	Iron (as Fe)	mg/L	0.290	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22.	Manganese (as Mn)	mg/L	0.055	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
24.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25.	Chromium Total (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71
26.	Copper (as Cu)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
28.	Zinc (as Zn)	mg/L	0.039	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
30.	Mercury (as Hg)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C,3-40-
<b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable				

ULR- TC74872100009201F

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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Report No.09808 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
17.	Dissolved Oxygen	mg/L	6.2	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
18.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
19.	Cyanide (as CN)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
20.	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>				
21.	Iron (as Fe)	mg/L	0.261	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
22.	Manganese (as Mn)	mg/L	0.045	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
23.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
24.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25.	Chromium Total (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71
26.	Copper (as Cu)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
28.	Zinc (as Zn)	mg/L	0.044	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
30.	Mercury (as Hg)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C,3-40-
<b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable				

ULR- TC74872100009200F

-END-

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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 WP: 8928346894 thane@mahabal.com**



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Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

## Test Report

<b>Report No.:</b> ME-NG09805-210720-SA-RIPL-AMRAVATI		<b>Date:</b> 20.07.2021	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b>		<b>Order Reference:</b>
	Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		SO No. 3382019103 Dt.17.05.2021
<b>Sample Description/Type</b>	Domestic Effluent	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	1.Plant STP Outlet 2.Colony STP Outlet	<b>Sample Quantity/Packing</b>	2 L X 2 No. PVC Can 100mL X 2 No. PVC Can
<b>Date of Sampling</b>	08.07.2021	<b>Date of Receipt of Sample</b>	08.07.2021
<b>Sampling Procedure</b>	IS:3025(Part I): 1987 RA2003, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
<b>Date of Start of Analysis</b>	08.07.2021	<b>Date of Completion of Analysis</b>	19.07.2021

ULR- TC748721000009197F

Sr. No.	Parameter	Unit	Result		Limit as per Consent	Method Reference
			1	2		
<b>Discipline : Chemical Testing; Product Group: Pollution &amp; Environment(Waste Water)</b>						
1	pH	-	8.2	8.5	6.5 to 8.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2	Biochemical Oxygen Demand (BOD at 3 days at 27°C)	mg/L	8.7	7.5	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
3	Chemical Oxygen Demand (COD)	mg/L	28	24	250 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
<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

## Test Report


<b>Report No.:</b> ME-NG09797-210716-SA-RIPL-AMRAVATI		<b>Date:</b> 16.07.2021	
<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 valid 31.05.2021
<b>Sample Description/Type</b>	Noise Level Monitoring	<b>Sample Collected by</b>	NA
<b>Date of Sampling</b>	08.07.2021 to 09.07.2021		
<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)	65.2	59.8
Near Compressor Room	dB(A)	68.7	63.2
Near CHP Crusher House	dB(A)	69.2	64.7
Near Colony	dB(A)	64.1	60.4
Turbine area No. 3 & 4	dB(A)	72.3	68.4
<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>			

ULR-TC748721000009189F

-----END-----

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Kishor Yeole

**BRANCH MANAGER**



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QF/SALE/05/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

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