



# 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)

## Test Report

<b>Report No.:</b> ME-NG05344-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	23.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		106		
Load (MW)		189		
<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	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1202741	-	IS 11255 (Part 3):2008

U/LR- TC748721000004992F



Report No.05344 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	24	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	16569	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	253	-	IS 11255 (Part 7):2005

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor Yeole

**BRANCH MANAGER**



Note:

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ULR- TC748721000004992F



Certificate Number TC-7487



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## Test Report

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<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		106		
Load (MW)		189		
<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	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1202741	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.3	-	Analyser Method
<b>Remark:</b> #: Limit as per MPCB Consent				

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

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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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## Test Report

<b>Report No.:</b> ME-NG05345-2100405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.04.2021

<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)		105		
Load (MW)		190		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	115	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1192890	-	IS 11255 (Part 3):2008

ULR- TC74872100004993F

Report No.05345 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	43	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	16834	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	283	-	IS 11255 (Part 7):2005

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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## Test Report

<b>Report No.:</b> ME-NG05345-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		105		
Load (MW)		190		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	115	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1192890	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.7	-	Analyser Method
<b>Remark:</b> #: Limit as per MPCB Consent				

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## Test Report

<b>Report No.:</b> ME-NG05346-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		106		
Load (MW)		190		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	118	-	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	1162519	-	IS 11255 (Part 3):2008

ULR- TC74872100004994F

Report No.05346 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	33	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	593	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	16545	-	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

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

-----END-----

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## Test Report

<b>Report No.:</b> ME-NG05346-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

**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)	106
Load (MW)	190

Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	118	-	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	1162519	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.5	-	Analyser Method

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

-----END-----

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## Stack Emission Monitoring Report

<b>Report No.:</b> ME-NG05347-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		104		
Load (MW)		190		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	114	-	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	1187430	-	IS 11255 (Part 3):2008

ULR- TC748721000004995F



Report No.05347 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	42	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	540	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	15389	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	292	-	IS 11255 (Part 7):2005

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

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
<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>	Analyser
<b>Date of Sampling</b>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		104		
Load (MW)		190		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	114	-	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	1187430	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.3	-	Analyser Method
<b>Remark:</b> #: Limit as per MPCB Consent				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



Note:

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Page 1 of 1

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)**



# 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)

## Test Report

<b>Report No.:</b> ME-NG05348-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		104		
Load (MW)		188		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	115	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1192897	-	IS 11255 (Part 3):2008

ULR- TC74872100004996F



Report No.05348 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm <sup>3</sup>	20	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	327	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO <sub>2</sub> )	kg/day	9362	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	243	-	IS 11255 (Part 7):2005

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

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor Yeole

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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)

## Test Report

<b>Report No.:</b> ME-NG05348-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method Reference.		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	27.03.2021

<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)		104		
Load (MW)		188		
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#Limit</b>	<b>Method Reference</b>
Flue gas Temperature	°C	115	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm <sup>3</sup> /h	1192897	-	IS 11255 (Part 3):2008
CO <sub>2</sub>	%	12.8	-	Analyser Method
<b>Remark:</b> #: Limit as per MPCB Consent				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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

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

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

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

## Test Report

<b>Report No.:</b> ME-NG05349-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	23.03.2021 to 24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	31.03.2021

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>	7.1	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>	64	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <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

ULR- TC748721000004997F





Report No. 05349 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	$\mu\text{g}/\text{m}^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	$\text{mg}/\text{m}^3$	1.07	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	22.5	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> )	$\mu\text{g}/\text{m}^3$	1.05	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	$\text{ng}/\text{m}^3$	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	$\text{ng}/\text{m}^3$	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	$\text{ng}/\text{m}^3$	4.0	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> )	$\mu\text{g}/\text{m}^3$	8.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	11.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10 $\mu\text{m}$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	61	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5 $\mu\text{m}$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	$\mu\text{g}/\text{m}^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	$\text{mg}/\text{m}^3$	1.11	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	<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> )	$\mu\text{g}/\text{m}^3$	1.02	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	$\text{ng}/\text{m}^3$	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	$\text{ng}/\text{m}^3$	0.38	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	$\text{ng}/\text{m}^3$	<3.0	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000004997F

Report No. 05349 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>	8.0	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>	70	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>	1.12	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	20.4	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>	<0.3	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>	4.82	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- TC748721000004997F

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Certificate Number TC-7487

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## Test Report

<b>Report No.:</b> ME-NG05352-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	22.03.2021 to 23.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	24.03.2021	<b>Date of Completion of Analysis</b>	31.03.2021

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>	10.7	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>	66	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	26	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- TC74872100005000F

Report No.05352 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>	<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>	<3.0	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: 24 hours</b>
Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	8.9	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>	20.1	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>	68	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5μm) or PM <sub>2.5</sub>	μg/m <sup>3</sup>	23	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>	0.94	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>	0.38	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>	3.12	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000005000F

Report No.05352 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>	8.9	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>	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>	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>	0.82	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>	<0.3	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>	<3.0	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- TC748721000005000F

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

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QF/SALE/03/Issue No 03 Dt 05.12.2019,Amd 01 Dt 01.03.2020



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Test Report

<b>Report No.:</b> ME-NG05361-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

ULR- TC748721000005009F

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	2.2	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	0.052	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	496	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	301	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	370	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	42.3	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

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

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



Report No.05361 cont...

ULR- TC748721000005009F

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	48.4	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	43.7	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	79.4	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	41.8	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.429	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.028	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
19	Oil and Grease	mg/L	N.D.			IS 3025 (Part 39):1991
<b>Residues in water (Trace metal Element)</b>						
20	Iron (as Fe)	mg/L	0.259	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
21	Manganese (as Mn)	mg/L	0.032	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
22	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
23	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
25	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Zinc (as Zn)	mg/L	0.024	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
28	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
29	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <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**



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

## Test Report

<b>Report No.:</b> ME-NG05361-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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

## Test Report

<b>Report No.:</b> ME-NG05362-210405-SA-RIPL-AMRAVATI			<b>Date:</b> 05.04.2021		
<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>	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		
<b>Date of Sampling</b>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021		
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021		

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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	-	8.2	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	296	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	235	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	210	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	15.1	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005010F



Report No. 05362 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	13.8	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	4.2	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	49.7	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	20.9	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.442	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.034	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	0.235	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.041	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	0.076	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- TC748721000005010F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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## Test Report

<b>Report No.:</b> ME-NG05362-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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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## Test Report

<b>Report No.:</b> ME-NG05360-210405-SA-RIPL-AMRAVATI			<b>Date:</b> 05.04.2021		
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021		
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021		

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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	1.6	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	408	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	282	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	15.1	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005008F

Report No.05360 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	31.5	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	23.6	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	65.0	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	29.2	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	0.025	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	0.211	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.025	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	0.022	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- TC748721000005008F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



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



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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Test Report

<b>Report No.:</b> ME-NG05360-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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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Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

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

## Test Report

<b>Report No.:</b> ME-NG05356-210405-SA-RIPL-AMRAVATI			<b>Date:</b> 05.04.2021		
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021		
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021		

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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	2.7	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	742	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	276	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	308	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	40.3	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005004F

Report No.05356 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	49.2	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	24.3	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	71.3	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	31.6	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.429	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.025	0.5 Max.	2.4 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
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	0.247	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.025	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	0.078	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**


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

## Test Report

<b>Report No.:</b> ME-NG05356-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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

## Test Report

<b>Report No.:</b> ME-NG05357-210405-SA-RIPL-AMRAVATI			<b>Date:</b> 05.04.2021		
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021		
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021		

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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	1.9	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.8	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	589	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	170	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	374	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	40.3	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005005F



Report No.05357 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	232	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	4.5	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	122	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	17.0	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.422	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.028	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	0.150	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.032	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	0.026	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- TC748721000005005F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Certificate Number TC-7487

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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**



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Test Report

<b>Report No.:</b> ME-NG05357-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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

## Test Report

<b>Report No.:</b> ME-NG05358-210405-SA-RIPL-AMRAVATI			<b>Date:</b> 05.04.2021		
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>		24.03.2021	
<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>	24.03.2021	<b>Date of Completion of Analysis</b>		05.04.2021	

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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	2.5	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	638	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	308	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	450	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	106	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75

ULR- TC748721000005006F



Report No. 05358 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	61.2	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	42.9	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	97.8	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	50.1	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.442	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.031	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	0.223	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	0.036	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	0.020	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- TC748721000005006F

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-NG05358-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<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 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com**

## Test Report

<b>Report No.:</b> ME-NG05363-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

ULR- TC748721000005011F

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-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	660	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	7	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	92	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	286	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	48.3	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	160	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.859	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	66.5	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	29.2	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.442	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.036	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27





Report No.05363 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
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	0.199	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	0.047	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	N.D.	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	0.032	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				

ULR- TC748721000005011F

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C.Yeole

**BRANCH MANAGER**



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## Test Report

<b>Report No.:</b> ME-NG05363-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

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;				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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## Test Report

<b>Report No.:</b> ME-NG05364-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

ULR- TC748721000005012F

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	1.0	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5.	pH	-	8.0	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-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	410	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	13	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	76	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	282	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	47.3	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	176	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.888	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	65.7	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	28.7	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.448	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.034	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27



Report No.05364 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
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	0.162	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	0.025	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	N.D.	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	0.030	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				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



Note:

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ULR- TC748721000005012F



Certificate Number 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 Email: mahabal.nagpur@gmail.com

## Test Report

<b>Report No.:</b> ME-NG05364-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

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;				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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## Effluent Sample Analysis Report

<b>Report No.:</b> ME-NG05372-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	Industrial Effluent	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Leachate Water	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
<b>Date of Sampling</b>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

ULR-TC748721000005020F

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste 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	3.1	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	8.2	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	1405	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
7.	Total Suspended Solids	mg/L	21	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
8.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	138	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	980	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
10.	Chloride (as Cl)	mg/L	115	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
11.	Sulphate (as SO <sub>4</sub> )	mg/L	670	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199

Report No.05372 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
12.	Nitrate (as NO <sub>3</sub> )	mg/L	3.51	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
13.	Calcium (as Ca)	mg/L	293	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
14.	Magnesium (as Mg)	mg/L	124	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
15.	Fluoride (as F)	mg/L	0.766	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
17.	Dissolved Oxygen	mg/L	5.9	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
<b>Residues in water (Trace metal Element)</b>				
19.	Iron (as Fe)	mg/L	0.296	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
20.	Zinc (as Zn)	mg/L	0.029	IS 3025 (Part-2) 2004, RA 2014
21.	Manganese (as Mn)	mg/L	0.073	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23.	Copper (as Cu)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
24.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
25.	Chromium Hexa (as Cr <sup>6+</sup> )	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71
26.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37),1988 RA 2009
27.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
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				

ULR-TC748721000005020F

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Kishor C. Yeole

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

## Test Report

<b>Report No.:</b> ME-NG05372-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	Industrial Effluent	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Leachate Water	<b>Sample Quantity/Packing</b>	500mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
<b>Date of Sampling</b>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	05.04.2021

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>				
1.	Cyanide (as CN)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
2.	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>Remarks:</b> N.D.: Not Detected				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C.Yeole

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## Test Report

<b>Report No.:</b> ME-NG05370-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	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>	24.03.2021	<b>Date of Receipt of Sample</b>	24.03.2021
<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>	24.03.2021	<b>Date of Completion of Analysis</b>	03.04.2021

ULR- TC748721000005018F

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	-	8.0	8.1	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2	Biochemical Oxygen Demand (3 days 27°C)	mg/L	11.4	9.7	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
3	Chemical Oxygen Demand	mg/L	36	32	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
<b>Remarks:</b>						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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

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



# 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 Email: mahabal.nagpur@gmail.com

## Test Report

<b>Report No.:</b> ME-NG05355-210405-SA-RIPL-AMRAVATI		<b>Date:</b> 05.04.2021	
<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>	24.03.2021 to 25.03.2021		
<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)	64.3	60.7
Near Compressor Room	dB(A)	67.8	64.3
Near CHP Crusher House	dB(A)	66.6	62.3
Near Colony	dB(A)	62.8	60.1
Turbine area No. 3 & 4	dB(A)	72.6	70.9
<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>			

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor Yeole

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QF/SALE/05/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**