



# 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)

## Ambient Air Quality Monitoring Report

<b>Report No.:</b> ME-NG01091-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	Ambient Air Quality Monitoring	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	1) Vill.Kapustalani 2) Vill.Dawargaon 3) Vill.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>	22.01.2020 to 23.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Receipt of Sample</b>	31.01.2020

### Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
3.0 km/h	NE	74	52	30.0	14.0

<b>Location</b>	1) Vill Kapustalani	<b>Duration of Survey:</b> 24 hours
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Parameter	Unit	Result	#NAAQM Standard	Method Reference
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### Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)

Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	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

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*Report No. 01091 Cont...*

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	µg/m <sup>3</sup>	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.15	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.07	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m <sup>3</sup>	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	2) Vill. Dawargaon			<b>Duration of Survey: 24 hours</b>
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.9	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>	18.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	60	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	µg/m <sup>3</sup>	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.07	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	26.3	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.09	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m <sup>3</sup>	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

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Parameter	Unit	Result	#NAAQM Standard	Method Reference
Nickel (as Ni)	ng/m <sup>3</sup>	3.69	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	3) Vill. Wagholi			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	8.7	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>	13.7	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>	63	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
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.11	4.0	IS 5182 (Part 10): 1999 RA 2003
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.11	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m <sup>3</sup>	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	<3	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- TC748720000001053F

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Kishor C. Yeole

**BRANCH MANAGER**


Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



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## Ambient Air Quality Monitoring Report

<b>Report No.:</b> ME-NG01094-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	<b>Order Reference:</b>	
		SO No. 3382017462 Dt.16.08.2019	
<b>Sample Description/Type</b>	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>	21.01.2020 to 22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Receipt of Sample</b>	31.01.2020

### Meteorological Data/Environmental Conditions

Avg. Wind Velocity	Prominent Wind Direction	Relative Humidity (%)		Temperature (°C)	
		Max.	Min.	Max.	Min.
2.8 km/h	NE	78	48	31.0	12.0
<b>Location</b>	1) Near Site Office			<b>Duration of Survey:</b> 24 hours	

Parameter	Unit	Result	#NAAQM Standard	Method Reference
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### Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)

Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	12.0	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>	15.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	63	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

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*Report No.01094 Cont...*

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	µg/m <sup>3</sup>	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.23	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>	1.14	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m <sup>3</sup>	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	2) Terrace of WTP Plant			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14.1	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>	17.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	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>	27	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>	1.17	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>	1.21	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m <sup>3</sup>	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m <sup>3</sup>	0.37	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

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*Report No.01094 Cont...*

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Nickel (as Ni)	ng/m <sup>3</sup>	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Location</b>	3) Terrace of Bachelor Guest House			<b>Duration of Survey:</b> 24 hours
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.9	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>	15.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	59	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	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>	22.3	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>	1.19	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>	1.15	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>	0.35	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m <sup>3</sup>	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
<b>Remarks:</b> TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

*Kishor C. Yeole*  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

ULR- TC748720000001056F





# 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)

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01108-200131-SA-RIPL-AMRAVATI			<b>Date:</b> 31.01.2020
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Well Water of Mr. Narayan Lomte Farm back side of Ash Dyke Area	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.2	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	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	624	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	310	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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*Report No.01108 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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	472	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	41.0	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	124	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	40.5	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	141	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	0.422	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
19	*Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.151	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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*Report No.01108 cont...*

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.048	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
<b>Remarks:</b> N.D.: Not Detected						

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
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# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01106-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Pimpalvihirgaon Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.2	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	411	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	302	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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*Report No.01106 cont...*

ULR-TC748720000001068P

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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	304	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	15.0	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	19.2	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	12.4	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (asCa)	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	30.6	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.403	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.0	-	-	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, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.124	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

*Report No.01106 cont...*

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.050	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40

**Remarks:** N.D.: Not Detected

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

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

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01105-200131-SA-RIPL-AMRAVATI			<b>Date:</b> 31.01.2020
<b>Name and Address of Customer</b>	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Digargaon Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.2	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	803	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	386	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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*Report No.01105 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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	656	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	102	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	97.5	200 Max.	400 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13	Nitrate (as NO <sub>3</sub> )	mg/L	43.2	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	184	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	47.6	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.416	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.8	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
19	*Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.089	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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*Report No.01105 cont...*

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.194	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
<b>Remarks:</b> N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole  
**BRANCH MANAGER**



Note:

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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01104-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Rasalpur Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.3	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	0.106	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	599	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

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*Report No.01104 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	
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	40.0	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	107	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	43.5	45 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14	Calcium (asCa)	mg/L	115	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	39.4	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.403	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.5	-	-	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, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.233	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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*Report No.01104 cont...*

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.036	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40

**Remarks:** N.D.: Not Detected

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

*Kishor C. Yeole*  
Kishor C. Yeole

**BRANCH MANAGER**



Note:

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# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01103-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Kapustalni Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.3	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	7.9	6.5 to 8.5	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	668	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	256	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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*Report No.01103 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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	358	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
12	Sulphate (as SO <sub>4</sub> )	mg/L	114	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	54.5	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	126	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	10.7	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.396	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.6	-	-	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, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.206	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

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Report No.01103 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.244	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40

**Remarks:** N.D.: Not Detected

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole  
**BRANCH MANAGER**



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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01102-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Wagholi Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water(Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.2	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	0.067	0.2 Min.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	622	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 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	156	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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Report No.01102 cont...

ULR-TC748720000001064P

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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	384	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	54.0	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CI-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	255	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	22.2	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	118	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	21.9	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.403	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	5.8	-	-	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
19	*Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.197	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20

Report No.01102 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.027	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40

**Remarks:** N.D.: Not Detected

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole  
**BRANCH MANAGER**



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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01101-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Ground Water/Grab	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Talkhanda Village	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
<b>Discipline: Chemical Testing; Product Group: Water (Ground Water)</b>						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	0.3	1 Max.	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
5	pH	-	8.1	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	ppm	<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	578	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	310	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1

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Report No.01101 cont...

ULR-TC748720000001063P

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	
10	Total Hardness (as CaCO <sub>3</sub> )	mg/L	364	200 Max.	600 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	43.0	250 Max.	1000 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12	Sulphate (as SO <sub>4</sub> )	mg/L	120	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	1.79	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	105	75 Max.	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	24.8	30 Max.	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.396	1 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	1.0 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.1	-	-	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, Reaffirmed 2009, Amds.1
20	*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
21	*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>						
22	Iron (as Fe)	mg/L	0.179	0.3 Max.	No relaxation.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24	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
25	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27	Copper (as Cu)	mg/L	<0.04	0.05 Max.	1.5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20



Report No.01101 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
28	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29	Zinc (as Zn)	mg/L	0.055	5 Max.	15 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30	Arsenic (as As)	mg/L	N.D.	0.01 Max.	0.05 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
<b>Remarks:</b> N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole  
**BRANCH MANAGER**



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## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01100-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Wagholi Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 500mL X 1 No. Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

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	-	N.A.	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.2	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	490	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	<5	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	140	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	310	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	58.0	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	181	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.523	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	64.1	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	36.5	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.506	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27

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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
19.	*Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	*Cyanide (as CN)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
21.	*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>				
22.	Iron (as Fe)	mg/L	0.124	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23.	Manganese (as Mn)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
25.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26.	Chromium Total (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27.	Copper (as Cu)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
28.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29.	Zinc (as Zn)	mg/L	0.036	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29.	Arsenic (as As)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
30.	Mercury (as Hg)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
31.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
<b>Remarks:</b> N.D. – Not Detected; NA: Not Applicable <b>The tests marked with an * are not accredited by NABL</b>				

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


 Kishor C. Yeole  
**BRANCH MANAGER**


Note:

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# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

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

## Water Sample Analysis Report

<b>Report No.:</b> ME-NG01099-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Surface Water	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	Malegaon Pond	<b>Sample Quantity/Packing</b>	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 500mL X 1No.Glass Bottle
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	31.01.2020

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Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b>				
1.	Colour	Hazen	<1	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	N.A.	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	0.5	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	475	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	8	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	138	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	346	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	60.0	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	168	APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	<0.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Calcium (as Ca)	mg/L	64.1	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	45.2	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.513	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	<0.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27

*Report No.01099 Cont...*

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.6	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146
19.	*Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
20.	*Cyanide (as CN)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
21.	*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>				
22.	Iron (as Fe)	mg/L	0.280	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
23.	Manganese (as Mn)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20 AAS Method
24.	Aluminium (as Al)	mg/L	<0.025	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63
25.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
26.	Chromium Total (as Cr)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
27.	Copper (as Cu)	mg/L	<0.04	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
28.	Lead (as Pb)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
29.	Zinc (as Zn)	mg/L	0.065	APHA 23 <sup>rd</sup> Ed. 2017, 3111-B, 3-20
30.	Arsenic (as As)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
31.	Mercury (as Hg)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25
32.	Selenium (as Se)	mg/L	N.D.	APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40
<b>Remarks:</b> N.D. – Not Detected; NA: Not Applicable <b>The tests marked with an * are not accredited by NABL</b>				

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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](mailto:nagpur@mahabal.com)

## Effluent Sample Analysis Report

<b>Report No.:</b> ME-NG01097-200130-SA-RIPL-AMRAVATI		<b>Date:</b> 30.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Domestic Effluent	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	1.STP Colony Outlet 2.STP Plant Outlet	<b>Sample Quantity/Packing</b>	2 L X 2 No. PVC Can 100mL X 2 No. PVC Can
<b>Date of Sampling</b>	22.01.2020	<b>Date of Receipt of Sample</b>	23.01.2020
<b>Sampling Procedure</b>	IS:3025(Part I): 1987 RA2003, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
<b>Date of Start of Analysis</b>	23.01.2020	<b>Date of Completion of Analysis</b>	27.01.2020

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Sr. No.	Parameter	Unit	Result		Limit as per MPCB Consent	Method Reference
			1	2		
<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment(Waste Water)</b>						
1	Biochemical Oxygen Demand (3 days 27°C)	mg/L	12	7.3	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
2	Chemical Oxygen Demand	mg/L	40	24	100 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
<b>Remarks:</b>						

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole  
**BRANCH MANAGER**



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

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)

## Noise Level Monitoring Report

<b>Report No.:</b> ME-NG01090-200131-SA-RIPL-AMRAVATI		<b>Date:</b> 31.01.2020	
<b>Name and Address of Customer</b>	<b>RATTANINDIA POWER LIMITED</b> Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901.		<b>Order Reference:</b>
			SO No. 3382017462 Dt.16.08.2019
<b>Sample Description/Type</b>	Noise Level Monitoring	<b>Sample Collected by</b>	NA
<b>Date of Sampling</b>	21.01.2020		
<b>Sampling Procedure</b>	IS 9876:1981 & manufacturer Manual		

<b>Discipline : Chemical Testing; Product Group: Atmospheric Pollution</b>			
Location	Unit	Result	
		Max.	Min.
Near Main Gate	dB(A)	68.2	61.6
Near Compressor Room	dB(A)	64.3	60.4
Near CHP Crusher House	dB(A)	63.8	60.8
Near Colony (Industry Premises)	dB(A)	65.2	61.2
3 & 4 Turbine Area	dB(A)	67.6	65.3
<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 ½		102	
1		105	
¾		107	
½		110	
¼		115	
<b>Remark :</b>			

ULR- TC748720000001052F

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

Kishor Yeole  
**BRANCH MANAGER**



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