Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SA-1888250124

Report No.:	ME-1888250124	Date: 29.01.2025
ULR No.:	TC748725000001722F	

Name and Address of Customer	**RATTAN INDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 1	Sample Quantity / Packing	Thimble: 1 X 1 No. SO_2:30 mL X 1 No. PVC Bottle NO_X:25 mL X 1 No. PVC Bottle CO: 1L X 1 No. Gas Bladder
Date of Sampling	23.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	28.01.2025

Stack Details	
Stack Identity	Boiler Unit No. 1
Stack attached to	ESP of Boiler Unit No. 1
Material of construction	M.S.
Stack height above ground level (Meter)	275
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	145
Load at the time of monitoring (MW)	270
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	^0C	120	-	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	29.6	-	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm^3/h	1250257	-	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm^3	37	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO_2)	mg/Nm^3	524	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NO_X)	mg/Nm^3	297	450	IS 11255 (Part 7): 2005
7	Carbon Monoxide (CO)	mg/Nm^3	29	-	IS 5182 (Part 10): 1999 (NDIR method)

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

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TEST REPORT

SA-1888250124

Report No.:	ME-1888250124	Date: 29.01.2025
ULR No.:	TC748725000001722F	

END OF REPORT

Note:
1. BQL: Below Quantification Limit
2. LOQ: Limit of Quantification
3. #: Limit as per MPCB Consent
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SA-1889250124

Report No.:	ME-1889250124	Date: 29.01.2025
ULR No.:	TC748725000001723F	

Name and Address of Customer	**RATTAN INDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 3	Sample Quantity / Packing	Thimble: 1 X 1 No. SO_2:30 mL X 1 No. PVC Bottle NO_X:25 mL X 1 No. PVC Bottle CO: 1L X 1 No. Gas Bladder
Date of Sampling	23.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	28.01.2025

Stack Details	
Stack Identity	Boiler Unit No. 3
Stack attached to	ESP of Boiler Unit No. 3
Material of construction	M.S.
Stack height above ground level (Meter)	275
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	144
Load at the time of monitoring (MW)	269
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	^0C	123	-	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	29.4	-	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm^3/h	1231661	-	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm^3	34	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO_2)	mg/Nm^3	528	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NO_X)	mg/Nm^3	304	450	IS 11255 (Part 7): 2005
7	Carbon Monoxide (CO)	mg/Nm^3	31	-	IS 5182 (Part 10): 1999 (NDIR method)

Reviewed and authorised by

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Chemical Testing

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SA-1889250124

Report No.:	ME-1889250124	Date: 29.01.2025
ULR No.:	TC748725000001723F	

END OF REPORT

Note:
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SA-1890250124

Report No.:	ME-1890250124	Date: 29.01.2025
ULR No.:	TC748725000001724F	

Name and Address of Customer	**RATTAN INDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 4	Sample Quantity / Packing	Thimble: 1 X 1 No. SO_2:30 mL X 1 No. PVC Bottle NO_X:25 mL X 1 No. PVC Bottle CO: 1L X 1 No. Gas Bladder
Date of Sampling	23.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	28.01.2025

Stack Details	
Stack Identity	Boiler Unit No. 4
Stack attached to	ESP of Boiler Unit No. 4
Material of construction	M.S.
Stack height above ground level (Meter)	275
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	145
Load at the time of monitoring (MW)	265
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	^0C	129	-	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	29.7	-	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm^3/h	1225711	-	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm^3	38	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO_2)	mg/Nm^3	533	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NO_X)	mg/Nm^3	289	450	IS 11255 (Part 7): 2005
7	Carbon Monoxide (CO)	mg/Nm^3	27	-	IS 5182 (Part 10): 1999 (NDIR method)

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TEST REPORT

SA-1890250124

Report No.:	ME-1890250124	Date: 29.01.2025
ULR No.:	TC748725000001724F	

END OF REPORT

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TEST REPORT

SA-1891250124

Report No.:	ME-1891250124	Date: 29.01.2025
ULR No.:	TC748725000001725F	

Name and Address of Customer	**RATTAN INDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 5	Sample Quantity / Packing	Thimble: 1 X 1 No. SO_2:30 mL X 1 No. PVC Bottle NO_X:25 mL X 1 No. PVC Bottle CO: 1L X 1 No. Gas Bladder
Date of Sampling	23.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	28.01.2025

Stack Details	
Stack Identity	Boiler Unit No. 5
Stack attached to	ESP of Boiler Unit No. 5
Material of construction	M.S.
Stack height above ground level (Meter)	275
Stack diameter (Meter)	4.6
Stack shape at top	Round
Type of fuel	Coal
Fuel Consumption (t/h)	142
Load at the time of monitoring (MW)	268
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1	Flue gas Temperature	^0C	121	-	IS 11255 (Part 3):2008
2	Flue gas Velocity	m/s	29.2	-	IS 11255 (Part 3):2008
3	Flue gas Flow Rate	Nm^3/h	1229460	-	IS 11255 (Part 3):2008
4	Particulate Matter (PM)	mg/Nm^3	30	50	IS 11255 (Part 1):1985
5	Sulphur Dioxide (SO_2)	mg/Nm^3	516	600	IS 11255 (Part 2):1985
6	Oxides of Nitrogen (NO_X)	mg/Nm^3	269	450	IS 11255 (Part 7): 2005
7	Carbon Monoxide (CO)	mg/Nm^3	23	-	IS 5182 (Part 10): 1999 (NDIR method)

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TEST REPORT

SA-1891250124

Report No.:	ME-1891250124	Date: 29.01.2025
ULR No.:	TC748725000001725F	

END OF REPORT

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

AA-1884250124

Report No.:	ME-1884250124	Date: 01.02.2025
ULR No.:	TC748725000001718F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Village Kapustalni	Sample Quantity / Packing	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mL X 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 1 X 6 No. CO:2L X 3No. Gas Bladder
Date of Sampling	23.01.2025 to 24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	12.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO_2)	µg/m³	15.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	50	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	20	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Ozone (O_3)	µg/m³	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

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TEST REPORT

AA-1884250124

Report No.:	ME-1884250124	Date: 01.02.2025
ULR No.:	TC748725000001718F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m³	0.71	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NH_3)	µg/m³	BQL (LOQ:20)	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
9	Benzene (C_6H_6)	µg/m³	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m³	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
11	Arsenic (as As)	ng/m³	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
12	Nickel (as Ni)	ng/m³	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. TWA: Time Weighted Average
4. Duration of Sampling: 24 h
5. NAAQS: National Ambient Air Quality Standard
6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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TEST REPORT

AA-1885250124

Report No.:	ME-1885250124	Date: 01.02.2025
ULR No.:	TC748725000001719F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Village Dawargaon	Sample Quantity / Packing	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mL X 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 1 X 6 No. CO:2L X 3No. Gas Bladder
Date of Sampling	23.01.2025 to 24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	9.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO_2)	µg/m³	14.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	43	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	18	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Ozone (O_3)	µg/m³	21.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

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TEST REPORT

AA-1885250124

Report No.:	ME-1885250124	Date: 01.02.2025
ULR No.:	TC748725000001719F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m³	0.84	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NH_3)	µg/m³	27.5	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
9	Benzene (C_6H_6)	µg/m³	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m³	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
11	Arsenic (as As)	ng/m³	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
12	Nickel (as Ni)	ng/m³	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. TWA: Time Weighted Average
4. Duration of Sampling: 24 h
5. NAAQS: National Ambient Air Quality Standard
6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

AA-1886250124

Report No.:	ME-1886250124	Date: 01.02.2025
ULR No.:	TC748725000001720F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Village Wagholi Gate	Sample Quantity / Packing	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mL X 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 1 X 6 No. CO:2L X 3No. Gas Bladder
Date of Sampling	23.01.2025 to 24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	13.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO_2)	µg/m³	16.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	40	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Ozone (O_3)	µg/m³	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

AA-1886250124

Report No.:	ME-1886250124	Date: 01.02.2025
ULR No.:	TC748725000001720F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m³	0.64	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NH_3)	µg/m³	BQL (LOQ:20)	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
9	Benzene (C_6H_6)	µg/m³	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m³	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
11	Arsenic (as As)	ng/m³	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
12	Nickel (as Ni)	ng/m³	3.25	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. TWA: Time Weighted Average
4. Duration of Sampling: 24 h
5. NAAQS: National Ambient Air Quality Standard
6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

AA-1887250124

Report No.:	ME-1887250124	Date: 01.02.2025
ULR No.:	TC748725000001721F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ambient Air	Sampling Done by	Laboratory
Sampling Location	Terrace of Bachelor Guest House	Sample Quantity / Packing	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mL X 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 1 X 6 No. CO:2L X 3No. Gas Bladder
Date of Sampling	23.01.2025 to 24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	10.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO_2)	µg/m³	11.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Ozone (O_3)	µg/m³	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34

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Chemical Testing

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TEST REPORT

AA-1887250124

Report No.:	ME-1887250124	Date: 01.02.2025
ULR No.:	TC748725000001721F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
7	Carbon Monoxide (CO)	mg/m³	0.69	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
8	Ammonia (NH_3)	µg/m³	22.1	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
9	Benzene (C_6H_6)	µg/m³	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m³	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
11	Arsenic (as As)	ng/m³	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
12	Nickel (as Ni)	ng/m³	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. TWA: Time Weighted Average
4. Duration of Sampling: 24 h
5. NAAQS: National Ambient Air Quality Standard
6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1867250124

Report No.:	ME-1867250124	Date: 01.02.2025
ULR No.:	TC748725000001701F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Well Water Backside of Ash Dyke Area Mr.N. Lomte Farm	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	0.4	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.4	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	554	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	340	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	442	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	24.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	55.7	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	33.6	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	139	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1867250124

Report No.:	ME-1867250124	Date: 01.02.2025
ULR No.:	TC748725000001701F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	23.3	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.50	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.7	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.067	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Sagar Yeul
Dy.Technical Manager
Chemical Testing

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MAHABAL ENVIRO ENGINEERS PVT. LTD.

TC-7487

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1868250124

Report No.:	ME-1868250124	Date: 01.02.2025
ULR No.:	TC748725000001702F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Pimpalvihirgaon	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	0.9	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.3	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	452	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	312	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	340	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	27.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	34.4	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	14.7	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	93.0	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1868250124

Report No.:	ME-1868250124	Date: 01.02.2025
ULR No.:	TC748725000001702F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	26.2	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.39	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.3	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.134	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1869250124

Report No.:	ME-1869250124	Date: 01.02.2025
ULR No.:	TC748725000001703F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Wagholi	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	0.7	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.4	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	851	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	170	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	600	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	96.5	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	357	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	22.4	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	149	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1869250124

Report No.:	ME-1869250124	Date: 01.02.2025
ULR No.:	TC748725000001703F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	55.4	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.32	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.2	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.138	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Sagar Yeul
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Chemical Testing

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Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

GW-1870250124

TEST REPORT

Report No.:	ME-1870250124	Date: 01.02.2025
ULR No.:	TC748725000001704F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Digargaon	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	1.1	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.5	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	826	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	472	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	692	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	60.5	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	78.5	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	44.8	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	169	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1870250124

Report No.:	ME-1870250124	Date: 01.02.2025
ULR No.:	TC748725000001704F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	65.6	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.41	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.7	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	0.038	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.258	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	0.010	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	0.028	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Sagar Yeul
Dy.Technical Manager
Chemical Testing

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1871250124

Report No.:	ME-1871250124	Date: 01.02.2025
ULR No.:	TC748725000001705F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Talkhanda	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	0.7	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.4	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	555	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	316	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	432	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	24.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	96.0	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	35.6	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	127	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1871250124

Report No.:	ME-1871250124	Date: 01.02.2025
ULR No.:	TC748725000001705F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	28.2	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.41	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.6	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.076	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Sagar Yeul
Dy.Technical Manager
Chemical Testing

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TEST REPORT

GW-1872250124

Report No.:	ME-1872250124	Date: 01.02.2025
ULR No.:	TC748725000001706F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Kapustalni	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Ground Water)					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	0.8	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH	-	7.6	6.5 to 8.5	No relaxation	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Max.	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	634	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	270	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	444	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	69.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	151	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	24.8	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	132	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

GW-1872250124

Report No.:	ME-1872250124	Date: 01.02.2025
ULR No.:	TC748725000001706F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	28.2	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.42	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.6	-	-	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	-	-	IS 3025 (Part 39): 2021
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	0.05 Max.	No relaxation	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water					
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	0.5 Max.	2.4 Max.	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.094	1.0 Max.	No relaxation	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	0.003Max	No relaxation	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	0.05 Max.	No relaxation	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	5 Max.	15 Max.	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	0.001Max	No relaxation	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025 (Part 2) 2019

END OF REPORT

Note:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. # Acceptable Limit as per IS 10500:2012 RA 2018
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Sagar Yeul
Dy.Technical Manager
Chemical Testing

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TC-7487

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PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SW-1865250124

Report No.:	ME-1865250124	Date: 01.02.2025
ULR No.:	TC748725000001699F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Surface water	Sampling Done by	Laboratory
Sampling Location	Malegaon Pond	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Surface Water)			
1.	Colour	Hazen	BQL (LOQ:1)	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	3.1	APHA 24th Ed. 2023, 2130-B
4.	pH	-	8.2	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	260	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	6	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	164	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	196	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	22.5	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	19.6	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	2.25	APHA 24th Ed. 2023,4500-NO_3, E
13.	Calcium (as Ca)	mg/L	45.7	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	19.9	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.65	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.6	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 2021

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

SW-1865250124

Report No.:	ME-1865250124	Date: 01.02.2025
ULR No.:	TC748725000001699F	

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water			
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.522	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	0.056	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019

END OF REPORT

Note:
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Chemical Testing

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

Report No.:	ME-1866250124	Date: 01.02.2025
ULR No.:	TC748725000001700F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Surface water	Sampling Done by	Laboratory
Sampling Location	Wagholi Pond	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	01.02.2025

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Water (Surface Water)			
1.	Colour	Hazen	BQL (LOQ:1)	APHA 24th Ed. 2023, 2120-B
2.	Odour	-	Agreeable	IS 3025 (Part 05):2018
3.	Turbidity	NTU	1.7	APHA 24th Ed. 2023, 2130-B
4.	pH	-	8.1	APHA 24th Ed. 2023, 4500-H+-B
5.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	APHA 24th Ed. 2023, 4500-Cl G
6.	Total Dissolved Solids	mg/L	660	IS 3025 (Part 16):2023
7.	Total Suspended Solids	mg/L	BQL (LOQ:5)	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	160	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	524	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	88.0	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	245	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	6.76	APHA 24th Ed. 2023,4500-NO_3, E
13.	Calcium (as Ca)	mg/L	148	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	37.4	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.57	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.8	APHA 24th Ed. 2023, 4500-O, B & C
17.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 2021

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

Report No.:	ME-1866250124	Date: 01.02.2025
ULR No.:	TC748725000001700F	

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Cyanide (as CN)	mg/L	BQL (LOQ:0.001)	APHA 24th Ed. 2023, 4500-CN, C & E
19.	Phenolic Compounds (as C_6H_5OH)	mg/L	BQL (LOQ:0.001)	APHA 24th Ed. 2023, 5530- B & C
	Product Group: Residues in water			
20.	Boron (as B)	mg/L	BQL (LOQ:0.02)	IS 3025 (Part 2) 2019
21.	Iron (as Fe)	mg/L	0.123	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	0.023	IS 3025 (Part 2) 2019
23.	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	APHA 24th Ed. 2023, 3500-Al-B
24.	Cadmium (as Cd)	mg/L	BQL (LOQ:0.0027)	IS 3025 (Part 2) 2019
25.	Chromium Total (as Cr)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019
26.	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019
27.	Lead (as Pb)	mg/L	BQL (LOQ:0.008)	IS 3025 (Part 2) 2019
28.	Zinc (as Zn)	mg/L	BQL (LOQ:0.02)	IS 3025 (Part 2) 2019
29.	Arsenic (as As)	mg/L	BQL (LOQ:0.007)	IS 3025 (Part 2) 2019
30.	Mercury (as Hg)	mg/L	BQL (LOQ:0.0005)	APHA 24th Ed. 2023, 3112-B
31.	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	IS 3025 (Part 2) 2019

END OF REPORT

Note:
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Chemical Testing

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

DE-1876250124

Report No.:	ME-1876250124	Date: 31.01.2025
ULR No.:	TC748725000001710F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Domestic Effluent	Sampling Done by	Laboratory
Sampling Location	Colony STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	31.01.2025

Sr. No.	Parameter	Unit	Result	# Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	pH	-	7.9	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H^+-B
2.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	4.7	30 Max.	IS 3025 (Part 44):2023
3.	Chemical Oxygen Demand	mg/L	16	250 Max.	APHA 24th Ed. 2023, 5220-B

END OF REPORT

Note:
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Sagar Yeul
Dy.Technical Manager
Chemical Testing

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PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

DE-1877250124

Report No.:	ME-1877250124	Date: 31.01.2025
ULR No.:	TC748725000001711F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**		SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Domestic Effluent	Sampling Done by	Laboratory
Sampling Location	Plant STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can
Date of Sampling	24.01.2025	Date of Receipt of Sample	24.01.2025
Sampling Procedure	IS:3025(Part I); APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	24.01.2025	Date of Completion of Analysis	31.01.2025

Sr. No.	Parameter	Unit	Result	# Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	pH	-	7.6	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H^+-B
2.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5.7	30 Max.	IS 3025 (Part 44):2023
3.	Chemical Oxygen Demand	mg/L	20	250 Max.	APHA 24th Ed. 2023, 5220-B

END OF REPORT

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Dy.Technical Manager
Chemical Testing

MEEPL

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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**

TEST REPORT

WNA-1892250124

Report No.:	ME-1892250124	Date: 29.01.2025
ULR No.:	TC748725000001726F	

Name and Address of Customer	**RATTANINDIA POWER LIMITED Plot No. D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901**	SO No.: 3382022890 SO Date: 29.05.2023
Sample Description / Type	Workroom Noise	
Date of Sampling	23.01.2025	
Sampling Procedure	CPCB Protocol for Ambient level Noise Monitoring 2015	

Sr. No.	Location	Time in h	Sound Level dB (A)	
			L_{min}	L_{max}
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Workroom Noise)			
1.	Turbine Area No.3 & 4	12:05 to 12:10	65.3	70.5
2.	Near CHP Crusher House	11:50 to 11:55	60.8	66.7
3.	Near Compressor Room	11:35 to 11:40	63.3	68.9
4.	Near Main Gate	11:25 to 11:30	60.1	65.4
5.	Near Colony	12:20 to 12:25	57.3	62.1

END OF REPORT

Limit as per The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV	
Total time of exposure per day, in hours.	**Max. Sound pressure level in dB (A)**
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
¾	107
½	110
¼	115

END OF REPORT

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487