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-1724251122

Report No.:	ME-1724251122	Date: 29.11.2025
ULR No.:	TC748725000022462F	

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.: 3382026036 SO Date: 25.03.2025
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
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	165
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	°C	130	-	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	1222959	-	IS 11255 (Part 3):2008
4.	Particulate Matter (PM)	mg/Nm^3	46	50	IS 11255 (Part 1):1985
5.	Sulphur Dioxide (SO_2)	mg/Nm^3	572	600	IS 11255 (Part 2):1985
6.	Oxides of Nitrogen (NO_X)	mg/Nm^3	294	450	IS 11255 (Part 7): 2005

END OF REPORT

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

SA-1724251122

Report No.:	ME-1724251122	Date: 29.11.2025
ULR No.:	TC748725000022462F	

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

TEST REPORT

SA-1724251122

Report No.:	ME-1724251122N	Date: 29.11.2025
ULR No.:	-	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No.1	Sample Quantity / Packing	CO: 1L X 1 No. Gas Bladder
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	165
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.	Carbon Monoxide (CO)	mg/Nm^3	19	-	IS 5182 (Part 10): 1999 (NDIR method)

END OF REPORT

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TEST REPORT

SA-1725251122

Report No.:	ME-1725251122	Date: 29.11.2025
ULR No.:	TC748725000022463F	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 2	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
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

Stack Details	
Stack Identity	Boiler Unit No. 2
Stack attached to	ESP of Boiler Unit No. 2
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)	158
Load at the time of monitoring (MW)	247
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	132	-	IS 11255 (Part 3):2008
2.	Flue gas Velocity	m/s	28.9	-	IS 11255 (Part 3):2008
3.	Flue gas Flow Rate	Nm^3/h	1183845	-	IS 11255 (Part 3):2008
4.	Particulate Matter (PM)	mg/Nm^3	35	50	IS 11255 (Part 1):1985
5.	Sulphur Dioxide (SO_2)	mg/Nm^3	561	600	IS 11255 (Part 2):1985
6.	Oxides of Nitrogen (NO_X)	mg/Nm^3	273	450	IS 11255 (Part 7): 2005

END OF REPORT

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

SA-1725251122

Report No.:	ME-1725251122	Date: 29.11.2025
ULR No.:	TC748725000022463F	

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TEST REPORT

SA-1725251122

Report No.:	ME-1725251122N	Date: 29.11.2025
ULR No.:	-	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 2	Sample Quantity / Packing	CO: 1L X 1 No. Gas Bladder
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

Stack Details	
Stack Identity	Boiler Unit No. 2
Stack attached to	ESP of Boiler Unit No. 2
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)	158
Load at the time of monitoring (MW)	247
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1.	Carbon Monoxide (CO)	mg/Nm^3	21	-	IS 5182 (Part 10): 1999 (NDIR method)

END OF REPORT

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

TEST REPORT

SA-1726251122

Report No.:	ME-1726251122	Date: 29.11.2025
ULR No.:	TC748725000022464F	

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.: 3382026036 SO Date: 25.03.2025
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
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	159
Load at the time of monitoring (MW)	263
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	125	-	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	1217105	-	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	550	600	IS 11255 (Part 2):1985
6.	Oxides of Nitrogen (NO_X)	mg/Nm^3	286	450	IS 11255 (Part 7): 2005

END OF REPORT

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

SA-1726251122

Report No.:	ME-1726251122	Date: 29.11.2025
ULR No.:	TC748725000022464F	

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TEST REPORT

SA-1726251122

Report No.:	ME-1726251122N	Date: 29.11.2025
ULR No.:	-	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 3	Sample Quantity / Packing	CO: 1L X 1 No. Gas Bladder
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	159
Load at the time of monitoring (MW)	263
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1.	Carbon Monoxide (CO)	mg/Nm^3	20	-	IS 5182 (Part 10): 1999 (NDIR method)

END OF REPORT

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TEST REPORT

SA-1727251122

Report No.:	ME-1727251122	Date: 29.11.2025
ULR No.:	TC748725000022465F	

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.: 3382026036 SO Date: 25.03.2025
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
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	150
Load at the time of monitoring (MW)	267
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	127	-	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	1227680	-	IS 11255 (Part 3):2008
4.	Particulate Matter (PM)	mg/Nm^3	39	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	279	450	IS 11255 (Part 7): 2005

END OF REPORT

Reviewed and authorised by

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Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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ULR No.:	TC748725000022465F	

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TEST REPORT

SA-1727251122

Report No.:	ME-1727251122N	Date: 29.11.2025
ULR No.:	-	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 4	Sample Quantity / Packing	CO: 1L X 1 No. Gas Bladder
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	150
Load at the time of monitoring (MW)	267
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1.	Carbon Monoxide (CO)	mg/Nm^3	23	-	IS 5182 (Part 10): 1999 (NDIR method)

END OF REPORT

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TEST REPORT

SA-1728251122

Report No.:	ME-1728251122	Date: 29.11.2025
ULR No.:	TC748725000022466F	

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.: 3382026036 SO Date: 25.03.2025
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
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	158
Load at the time of monitoring (MW)	260
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	124	-	IS 11255 (Part 3):2008
2.	Flue gas Velocity	m/s	29.5	-	IS 11255 (Part 3):2008
3.	Flue gas Flow Rate	Nm^3/h	1232730	-	IS 11255 (Part 3):2008
4.	Particulate Matter (PM)	mg/Nm^3	36	50	IS 11255 (Part 1):1985
5.	Sulphur Dioxide (SO_2)	mg/Nm^3	538	600	IS 11255 (Part 2):1985
6.	Oxides of Nitrogen (NO_X)	mg/Nm^3	300	450	IS 11255 (Part 7): 2005

END OF REPORT

Reviewed and authorised by

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Dy.Technical Manager
Chemical Testing

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

SA-1728251122

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ULR No.:	TC748725000022466F	

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TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

SA-1728251122

Report No.:	ME-1728251122N	Date: 29.11.2025
ULR No.:	-	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Stack Emission	Sampling Done by	Laboratory
Sampling Location	Boiler Unit No. 5	Sample Quantity / Packing	CO: 1L X 1 No. Gas Bladder
Date of Sampling	21.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	24.11.2025	Date of Completion of Analysis	29.11.2025

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)	158
Load at the time of monitoring (MW)	260
Time of Monitoring (h)	-

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
1.	Carbon Monoxide (CO)	mg/Nm^3	18	-	IS 5182 (Part 10): 1999 (NDIR method)

END OF REPORT

Note:
1. BQL: Below Quantification Limit
2. LOQ: Limit of Quantification
3. #: Limit as per MPCB Consent
4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

MAHABAL ENVIRO ENGINEERS PVT. LTD. Laboratory Division

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-1720251122

Report No.:	ME-1720251122	Date: 02.12.2025
ULR No.:	TC748725000022542F	

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.: 3382026036 SO Date: 25.03.2025
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	21.11.2025 to 22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	13.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
2	Nitrogen Dioxide (NO_2)	µg/m³	16.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	24	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
5	Ozone (O_3)	µg/m³	BQL (LOQ:19.6)	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

Reviewed and authorised by

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TC-7487

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

TEST REPORT

AA-1720251122

Report No.:	ME-1720251122	Date: 02.12.2025
ULR No.:	TC748725000022542F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
7	Carbon Monoxide (CO)	mg/m^3	0.85	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13 (NDIR method)
8	Ammonia (NH_3)	$\mu g/m^3$	BQL (LOQ:20)	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
9	Benzene (C_6H_6)	$\mu g/m^3$	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m^3	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
11	Arsenic (as As)	ng/m^3	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
12	Nickel (as Ni)	ng/m^3	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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-1721251122

Report No.:	ME-1721251122	Date: 02.12.2025
ULR No.:	TC748725000022543F	

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.: 3382026036 SO Date: 25.03.2025
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	21.11.2025 to 22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
2	Nitrogen Dioxide (NO_2)	µg/m³	18.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	71	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	33	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
5	Ozone (O_3)	µg/m³	21.1	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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TEST REPORT

AA-1721251122

Report No.:	ME-1721251122	Date: 02.12.2025
ULR No.:	TC748725000022543F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
7	Carbon Monoxide (CO)	mg/m^3	0.78	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13 (NDIR method)
8	Ammonia (NH_3)	$\mu g/m^3$	20.9	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
9	Benzene (C_6H_6)	$\mu g/m^3$	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m^3	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
11	Arsenic (as As)	ng/m^3	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
12	Nickel (as Ni)	ng/m^3	BQL (LOQ:3)	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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-1722251122

Report No.:	ME-1722251122	Date: 02.12.2025
ULR No.:	TC748725000022544F	

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.: 3382026036 SO Date: 25.03.2025
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	21.11.2025 to 22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	10.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
2	Nitrogen Dioxide (NO_2)	µg/m³	13.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	66	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
5	Ozone (O_3)	µg/m³	21.0	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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TEST REPORT

AA-1722251122

Report No.:	ME-1722251122	Date: 02.12.2025
ULR No.:	TC748725000022544F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
7	Carbon Monoxide (CO)	mg/m^3	0.69	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13 (NDIR method)
8	Ammonia (NH_3)	$\mu g/m^3$	BQL (LOQ:20)	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
9	Benzene (C_6H_6)	$\mu g/m^3$	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m^3	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
11	Arsenic (as As)	ng/m^3	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
12	Nickel (as Ni)	ng/m^3	3.12	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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-1723251122

Report No.:	ME-1723251122	Date: 02.12.2025
ULR No.:	TC748725000022461F	

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.: 3382026036 SO Date: 25.03.2025
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	21.11.2025 to 22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	As per method reference		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO_2)	µg/m³	14.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
2	Nitrogen Dioxide (NO_2)	µg/m³	18.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
3	Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	71	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
4	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	µg/m³	28	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
5	Ozone (O_3)	µg/m³	20.9	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
6	Lead (as Pb)	µg/m³	BQL (LOQ:0.02)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

Reviewed and authorised by

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TC-7487

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

TEST REPORT

AA-1723251122

Report No.:	ME-1723251122	Date: 02.12.2025
ULR No.:	TC748725000022461F	

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
7	Carbon Monoxide (CO)	mg/m^3	0.88	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13 (NDIR method)
8	Ammonia (NH_3)	$\mu g/m^3$	22.1	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
9	Benzene (C_6H_6)	$\mu g/m^3$	BQL (LOQ:1)	05	IS 5182 (Part 11): 2006
10	Benzo(a)Pyrene (Particulate phase only)	ng/m^3	BQL (LOQ:0.5)	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
11	Arsenic (as As)	ng/m^3	BQL (LOQ:0.3)	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13
12	Nickel (as Ni)	ng/m^3	3.94	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13

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

WPN-1729251122

Report No.:	ME-1729251122	Date: 29.11.2025
ULR No.:	TC748725000022467F	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Workroom Noise	
Date of Sampling	22.11.2025	
Sampling Procedure	CPCB Protocol for Ambient level Noise Monitoring 2015	

Sr. No.	Location	Time in h	Sound Level L_{eq} dB (A)	
			L_{min}	L_{max}
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Workroom Noise)			
1.	Turbine Area No. 3 & 4	10:30 to 10:35	65.3	70.8
2.	Near CHP Crusher House	11:00 to 11:05	61.4	67.5
3.	Near Compressor Room	11:40 to 11:45	63.8	70.8
4.	Near Main Gate	12:10 to 12:15	60.6	66.7
5.	Near Colony	13:00 to 13:05	54.8	60.9

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

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

TEST REPORT

GW-1732251122

Report No.:	ME-1732251122	Date: 02.12.2025
ULR No.:	TC748725000022547F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.3	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	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 (at 180°C)	mg/L	524	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	322	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	26.5	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	39.0	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	43.0	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	63.3	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-1732251122

Report No.:	ME-1732251122	Date: 02.12.2025
ULR No.:	TC748725000022547F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	44.2	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.73	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.0	-	-	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	0.191	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
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Reviewed and authorised by

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Dy.Technical Manager
Chemical Testing

MEEPL

MAHABAL ENVIRO ENGINEERS P.LTD. Laboratory Division

TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
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TEST REPORT

GW-1733251122

Report No.:	ME-1733251122	Date: 02.12.2025
ULR No.:	TC748725000022548F	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Village Dawargaon	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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.2	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	7.8	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 (at 180°C)	mg/L	579	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	356	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	400	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	28.5	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	40.1	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	44.9	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B

Reviewed and authorised by

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TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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

GW-1733251122

TEST REPORT

Report No.:	ME-1733251122	Date: 02.12.2025
ULR No.:	TC748725000022548F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
13.	Calcium (as Ca)	mg/L	89.8	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	42.8	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.68	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	0.194	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
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012
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Reviewed and authorised by

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MAHABAL ENVIRO ENGINEERS PVT. LTD. Laboratory Division

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-1734251122

Report No.:	ME-1734251122	Date: 02.12.2025
ULR No.:	TC748725000022549F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.2	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	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 (at 180°C)	mg/L	578	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	326	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	372	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	29.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	50.2	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	45.3	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	87.4	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

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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-1734251122

Report No.:	ME-1734251122	Date: 02.12.2025
ULR No.:	TC748725000022549F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	37.4	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.62	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	0.192	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
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TEST REPORT

GW-1735251122

Report No.:	ME-1735251122	Date: 02.12.2025
ULR No.:	TC748725000022550F	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Ground water	Sampling Done by	Laboratory
Sampling Location	Backside of Ash Dyke 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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.3	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25^{0}C)	-	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 (at 180^{0}C)	mg/L	575	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105^{0}C)	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	352	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	374	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	30.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	50.4	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	45.6	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	74.5	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

Reviewed and authorised by

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Dy.Technical Manager
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TC-7487

Mahabal Enviro Engineers Pvt. Ltd.

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

TEST REPORT

GW-1735251122

Report No.:	ME-1735251122	Date: 02.12.2025
ULR No.:	TC748725000022550F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	45.7	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.52	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	0.081	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
4. $ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012
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Reviewed and authorised by

Sagar Yeul
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MAHABAL ENVIRO ENGINEERS P. LTD. Laboratory Division

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-1736251122

Report No.:	ME-1736251122	Date: 02.12.2025
ULR No.:	TC748725000022551F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.3	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	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 (at 180°C)	mg/L	465	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	-	-	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	260	200 Max.	600 Max.	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	348	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	31.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	50.8	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	45.3	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B
13.	Calcium (as Ca)	mg/L	80.2	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B

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GW-1736251122

TEST REPORT

Report No.:	ME-1736251122	Date: 02.12.2025
ULR No.:	TC748725000022551F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
14.	Magnesium (as Mg)	mg/L	36.0	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.64	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.0	-	-	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	0.073	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
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TEST REPORT

GW-1737251122

Report No.:	ME-1737251122	Date: 02.12.2025
ULR No.:	TC748725000022552F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.2	1 Max.	5 Max.	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	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 (at 180°C)	mg/L	690	500 Max.	2000 Max.	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	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	476	200 Max.	600 Max.	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	91.0	250 Max.	1000 Max.	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	107	200 Max.	400 Max.	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	7.77	45 Max.	No relaxation	APHA 24th Ed. 2023,4500-NO_3, B

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

TEST REPORT

GW-1737251122

Report No.:	ME-1737251122	Date: 02.12.2025
ULR No.:	TC748725000022552F	

Sr. No.	Parameter	Unit	Result	#Limit	$Limit	Method Reference
13.	Calcium (as Ca)	mg/L	120	75 Max.	200 Max.	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	42.8	30 Max.	100 Max.	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.54	1 Max.	1.5 Max.	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	5.8	-	-	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	0.084	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
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TEST REPORT

SW-1730251122

Report No.:	ME-1730251122	Date: 02.12.2025
ULR No.:	TC748725000022545F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.4	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	8.0	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 (at 180°C)	mg/L	593	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	224	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	392	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	99.0	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	127	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	1.13	APHA 24th Ed. 2023,4500-NO_3, E
13.	Calcium (as Ca)	mg/L	91.4	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	39.9	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.68	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	5.9	APHA 24th Ed. 2023, 4500-O, B & C

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TEST REPORT

SW-1730251122

Report No.:	ME-1730251122	Date: 02.12.2025
ULR No.:	TC748725000022545F	

Sr. No.	Parameter	Unit	Result	Method Reference
17.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 2021
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	0.103	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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TEST REPORT

SW-1731251122

Report No.:	ME-1731251122	Date: 02.12.2025
ULR No.:	TC748725000022546F	

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.: 3382026036 SO Date: 25.03.2025
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	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS: 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	02.12.2025

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	0.3	APHA 24th Ed. 2023, 2130-B
4.	pH (at 25°C)	-	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 (at 180°C)	mg/L	595	IS 3025 (Part 16):2023
7.	Total Suspended Solids (at 105°C)	mg/L	BQL (LOQ:5)	APHA 24th Ed. 2023, 2540-D
8.	Alkalinity Total (as $CaCO_3$)	mg/L	226	APHA 24th Ed. 2023, 2320-B
9.	Total Hardness (as $CaCO_3$)	mg/L	376	APHA 24th Ed. 2023, 2340-C
10.	Chloride (as Cl)	mg/L	101	APHA 24th Ed. 2023, 4500-Cl-B
11.	Sulphate (as SO_4)	mg/L	134	APHA 24th Ed. 2023, 4500-SO_4-E
12.	Nitrate (as NO_3)	mg/L	1.54	APHA 24th Ed. 2023,4500-NO_3, E
13.	Calcium (as Ca)	mg/L	93.0	APHA 24th Ed. 2023, 3500-Ca-B
14.	Magnesium (as Mg)	mg/L	35.0	APHA 24th Ed. 2023, 3500-Mg-B
15.	Fluoride (as F)	mg/L	0.82	APHA 24th Ed. 2023, 4500-F, D
16.	Dissolved Oxygen	mg/L	6.0	APHA 24th Ed. 2023, 4500-O, B & C

Reviewed and authorised by

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TEST REPORT

SW-1731251122

Report No.:	ME-1731251122	Date: 02.12.2025
ULR No.:	TC748725000022546F	

Sr. No.	Parameter	Unit	Result	Method Reference
17.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 2021
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	0.081	IS 3025 (Part 2) 2019
22.	Manganese (as Mn)	mg/L	0.027	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	0.031	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:
1. BQL: Below Quantification Limit.
2. LOQ: Limit of Quantification.
3. The result listed refers only to the tested sample(s) and applicable parameter(s).
4. This report is not to be reproduced except in full, without the written approval of the laboratory.
5. Any complaint pertaining to the report can be addressed to mahabalreports@gmail.com

Reviewed and authorised by

Sagar Yeul
Dy.Technical Manager
Chemical Testing

MAHABAL ENVIRO ENGINEERS PVT. LTD. Laboratory Division

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

DE-1742251122

Report No.:	ME-1742251122	Date: 02.12.2025
ULR No.:	TC748725000022557F	

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.: 3382026036 SO Date: 25.03.2025
Sample Description / Type	Domestic Effluent	Sampling Done by	Laboratory
Sampling Location	Colony STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 250mL X 1 No. PVC Can
Date of Sampling	22.11.2025	Date of Receipt of Sample	22.11.2025
Sampling Procedure	IS 17614; APHA 24th Ed. 2023, 1060-B		
Date of Start of Analysis	22.11.2025	Date of Completion of Analysis	29.11.2025

Sr. No.	Parameter	Unit	Result	# Limit	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	pH (at 25°C)	-	8.5	6.5 to 8.5	APHA 24th Ed. 2023, 4500-H^+-B
2.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	8.5	30 Max.	IS 3025 (Part 44):2023
3.	Chemical Oxygen Demand	mg/L	32	250 Max.	APHA 24th Ed. 2023, 5220-B

END OF REPORT

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3. #: Limit as per MPCB Consent.
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