



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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

Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Test Report

Report No.: ME-NG07486-210525-SA-RIPL-AMRAVATI		Date: 25.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#1	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	21.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
Stack Identity		Boiler Unit 1		
Stack attached to		ESP of Boiler U#1		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		157		
Load (MW)		251		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1162919	-	IS 11255 (Part 3):2008

ULR- TC74872100007033F

Report No.07486 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	32	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	536	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	14960	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	264	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



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Note:

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TC-7487



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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #1	Sample Quantity/Packing	Analyser
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	21.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
Stack Identity	Boiler Unit 1			
Stack attached to	ESP of Boiler U#1			
Material of construction	M.S.			
Stack height above ground level (Meter)	275			
Stack diameter at sampling point (Meter)	4.6			
Stack shape at top	Round			
Type of fuel	Coal			
Fuel Consumption (t/h)	157			
Load (MW)	251			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.9	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1162919	-	IS 11255 (Part 3):2008
CO ₂	%	12.3	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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

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 (600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
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Test Report

Report No.: ME-NG07487-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#2	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	21.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
Stack Identity	Boiler Unit 2			
Stack attached to	ESP of Boiler U#2			
Material of construction	M.S.			
Stack height above ground level (Meter)	275			
Stack diameter at sampling point (Meter)	4.6			
Stack shape at top	Round			
Type of fuel	Coal			
Fuel Consumption (t/h)	94			
Load (MW)	152			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	118	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1196461	-	IS 11255 (Part 3):2008

ULR- TC74872100007034F



Report No.07487 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	38	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	540	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	15506	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	284	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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TC-7487



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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #2	Sample Quantity/Packing	Analyser
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	21.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
Stack Identity		Boiler Unit 2		
Stack attached to		ESP of Boiler U#2		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		94		
Load (MW)		152		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	118	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1196461	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#3	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
Stack Identity		Boiler Unit#3		
Stack attached to		ESP of Boiler U#3		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		107		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.0	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1175973	-	IS 11255 (Part 3):2008

ULR- TC74872100007035F

Report No.07488 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	35	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	565	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	15946	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	274	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #3	Sample Quantity/Packing	Analyser
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
Stack Identity		Boiler Unit 3		
Stack attached to		ESP of Boiler U#3		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		107		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	122	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.0	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1175973	-	IS 11255 (Part 3):2008
CO ₂	%	12.2	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#4	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity		Boiler Unit#4		
Stack attached to		ESP of Boiler U#4		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		110		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	123	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1164632	-	IS 11255 (Part 3):2008

ULR- TC748721000007036F

Report No.07489 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	37	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	570	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	15932	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	290	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #4	Sample Quantity/Packing	Analyser
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity		Boiler Unit 4		
Stack attached to		ESP of Boiler U#4		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		110		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	123	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	27.8	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1164632	-	IS 11255 (Part 3):2008
CO ₂	%	13.2	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

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			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#5	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
Stack Identity		Boiler Unit#5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		100		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	116	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1198476	-	IS 11255 (Part 3):2008

ULR- TC748721000007037F

Report No.07490 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	31	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	534	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	15360	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	274	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

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Test Report

Report No.: ME-NG07490-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #5	Sample Quantity/Packing	Analyser
Date of Sampling	18.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	25.05.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
Stack Identity		Boiler Unit 5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		152		
Load (MW)		264		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	116	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1198476	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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 Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162 **T/Fax**: 91-712-2612212 **Email**: nagpur@mahabal.com

Test Report

Report No.: ME-NG07924-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#1	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
Stack Identity	Boiler Unit 1			
Stack attached to	ESP of Boiler U#1			
Material of construction	M.S.			
Stack height above ground level (Meter)	275			
Stack diameter at sampling point (Meter)	4.6			
Stack shape at top	Round			
Type of fuel	Coal			
Fuel Consumption (t/h)	157			
Load (MW)	251			
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	130	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	30.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1230050	-	IS 11255 (Part 3):2008

ULR- TC748721000007444F

Report No.07924 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	41	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	587	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	17329	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	288	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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Test Report

Report No.: ME-NG07924-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #1	Sample Quantity/Packing	Analyser
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-1		
Stack Identity		Boiler Unit 1		
Stack attached to		ESP of Boiler U#1		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		157		
Load (MW)		251		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	130	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	30.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1230050	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Test Report

Report No.: ME-NG07925-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#2	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
Stack Identity		Boiler Unit 2		
Stack attached to		ESP of Boiler U#2		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		94		
Load (MW)		152		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	127	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1210639	-	IS 11255 (Part 3):2008

ULR- TC748721000007445F

Report No.07925 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	38	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	570	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16561	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	276	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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Test Report

Report No.: ME-NG07925-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #2	Sample Quantity/Packing	Analyser
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-2		
Stack Identity		Boiler Unit 2		
Stack attached to		ESP of Boiler U#2		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		94		
Load (MW)		152		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	127	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.5	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1210639	-	IS 11255 (Part 3):2008
CO ₂	%	13.2	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Test Report

Report No.: ME-NG07926-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#3	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
Stack Identity		Boiler Unit#3		
Stack attached to		ESP of Boiler U#3		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		107		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	126	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.0	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192995	-	IS 11255 (Part 3):2008

ULR- TC748721000007446F

Report No.07926 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	37	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	585	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16750	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	273	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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Test Report

Report No.: ME-NG07926-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #3	Sample Quantity/Packing	Analyser
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-3		
Stack Identity		Boiler Unit 3		
Stack attached to		ESP of Boiler U#3		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		107		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	126	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.0	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1192995	-	IS 11255 (Part 3):2008
CO ₂	%	12.8	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Phone : 91-712-2612162 T/Fax: 91-712-2612212 Email: nagpur@mahabal.com

Test Report

Report No.: ME-NG07927-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#4	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity		Boiler Unit#4		
Stack attached to		ESP of Boiler U#4		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		110		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1200155	-	IS 11255 (Part 3):2008

ULR- TC748721000007447F

Report No.07927 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	43	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	575	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16562	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	280	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

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Test Report

Report No.: ME-NG07927-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #4	Sample Quantity/Packing	Analyser
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-4		
Stack Identity		Boiler Unit 4		
Stack attached to		ESP of Boiler U#4		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		110		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	125	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	29.1	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1200155	-	IS 11255 (Part 3):2008
CO ₂	%	13.5	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

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Test Report

Report No.: ME-NG07928-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit#5	Sample Quantity/Packing	Thimble:1 X 1 No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x : 25mL X 1No. PVC Bottle
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
Stack Identity		Boiler Unit#5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		100		
Load (MW)		154		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	120	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1177794	-	IS 11255 (Part 3):2008

ULR- TC748721000007448F

Report No.07928 cont...

Parameter	Unit	Result	#Limit	Method Reference
Particulate Matter (PM)	mg/Nm ³	36	50	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	586	-	IS 11255 (Part 2):1985, RA 2003
Sulphur Dioxide (SO ₂)	kg/day	16564	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)	mg/Nm ³	276	-	IS 11255 (Part 7):2005

Remark: #: Limit as per MPCB Consent

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor Yeole

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



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors
 Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162 **T/Fax**: 91-712-2612212 **Email**: nagpur@mahabal.com

Test Report

Report No.: ME-NG07928-210604-SA-RIPL-AMRAVATI		Date: 04.06.2021	
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.		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	Boiler Unit #5	Sample Quantity/Packing	Analyser
Date of Sampling	28.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method Reference.		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	03.06.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)				
Stack Details		S-5		
Stack Identity		Boiler Unit 5		
Stack attached to		ESP of Boiler U#5		
Material of construction		M.S.		
Stack height above ground level (Meter)		275		
Stack diameter at sampling point (Meter)		4.6		
Stack shape at top		Round		
Type of fuel		Coal		
Fuel Consumption (t/h)		152		
Load (MW)		264		
Parameter	Unit	Result	#Limit	Method Reference
Flue gas Temperature	°C	120	-	IS 11255 (Part 3):2008
Flue gas Velocity	m/s	28.2	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1177794	-	IS 11255 (Part 3):2008
CO ₂	%	13.0	-	Analyser Method
Remark: #: Limit as per MPCB Consent				

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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



Mahabal Enviro Engineers Pvt. Ltd.

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

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

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

Test Report

Report No.: ME-NG07929-210605-SA-RIPL-AMRAVATI		Date: 05.06.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Near Site Office 2) Terrace of WTP Plant 3) Terrace of Bachelor Guest House	Sample Quantity/Packing	Filter Paper (PM ₁₀): 3 X 3 No. Filter Paper (PM _{2.5}): 1 X 3 No. SO ₂ : 30mL X18 No. PVC Bottle NO ₂ : 30mL X18 No. PVC Bottle NH ₃ : 10 mL X72 No. PVC Bottle O ₃ : 10 mL X 72 No. PVC Bottle 3 X 6 No. Charcoal Tubes 3 X 3 No. Gas Bladder
Date of Sampling	29.05.2021 to 30.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method reference		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	04.06.2021

ULR- TC748721000007449F

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	1) Near Site Office			Duration of Survey: 24 hours
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Sulphur Dioxide (SO ₂)	µg/m ³	11.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	14.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	72	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34



Report No. 07929 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Lead (as Pb)	$\mu\text{g}/\text{m}^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	1.03	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	$\mu\text{g}/\text{m}^3$	1.10	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m^3	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	0.354	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	3.03	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Location	2) Terrace of WTP Plant			Duration of Survey: 24 hours
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10 μm) or PM ₁₀	$\mu\text{g}/\text{m}^3$	75	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5 μm) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	30	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	$\mu\text{g}/\text{m}^3$	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	1.11	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	$\mu\text{g}/\text{m}^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	$\mu\text{g}/\text{m}^3$	1.06	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000007449F

Report No. 07929 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	3) Terrace of Bachelor Guest House			Duration of Survey: 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	13.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	19.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	71	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	29	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	µg/m ³	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m ³	1.03	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.08	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m ³	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m ³	0.445	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m ³	3.96	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Remarks: TWA - Time Weighted Average., # - NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.				

ULR- TC748721000007449F

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 Kishor C. Yeole

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Phone: 2582 0658/ 3139/ 1663/ 3154 WP: 8928346894 thane@mahabal.com



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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors
Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

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

Test Report

Report No.: ME-NG07932-210605-SA-RIPL-AMRAVATI		Date: 05.06.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	1) Village Kapustalani 2) Village Dawargaon 3) Village Wagholi	Sample Quantity/Packing	Filter Paper (PM ₁₀): 3 X 3 No. Filter Paper (PM _{2.5}): 1 X 3 No. SO ₂ : 30mL X18 No. PVC Bottle NO ₂ : 30mL X18 No. PVC Bottle NH ₃ : 10 mL X72 No. PVC Bottle O ₃ : 10 mL X 72 No. PVC Bottle 3 X 6 No. Charcoal Tubes 3 X 3 No. Gas Bladder
Date of Sampling	29.05.2021 to 30.05.2021	Date of Receipt of Sample	30.05.2021
Sampling Procedure	As per Method reference		
Date of Start of Analysis	30.05.2021	Date of Completion of Analysis	04.06.2021

ULR- TC748721000007452F

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	1.Village Kapustalani			Duration of Survey: 24 hours
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Sulphur Dioxide (SO ₂)	µg/m ³	10.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	14.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	97	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	12	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	µg/m ³	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55



Report No.07932 Cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Carbon Monoxide (CO)	mg/m ³	0.90	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	<1	5.0	IS 5182 (Part 11): 2006
Benzo (a) Pyrene (Particulate phase only)	ng/m ³	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m ³	0.323	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m ³	3.03	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Location	2) Village Dawargaon			Duration of Survey: 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	7.63	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	11.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	74	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	28	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	µg/m ³	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m ³	0.98	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	20.6	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.04	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m ³	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m ³	0.415	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m ³	3.96	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

ULR- TC748721000007452F

Report No.07932 Cont..
ULR- TC748721000007452F

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location	3) Village Wagholi			Duration of Survey: 24 hours
Sulphur Dioxide (SO ₂)	µg/m ³	10.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	12.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	57	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	22	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Ozone (O ₃)	µg/m ³	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	µg/m ³	<0.02	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m ³	0.81	4.0	IS 5182 (Part 10):1999 RA 2003
Ammonia (NH ₃)	µg/m ³	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C ₆ H ₆)	µg/m ³	1.05	5.0	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m ³	<0.5	1.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m ³	<0.3	6.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m ³	<3	20.0	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Remarks: TWA - Time Weighted Average., #- NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM ₁₀ , PM _{2.5} , Lead and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel..				

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



 Kishor C. Yeole
BRANCH MANAGER

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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162,2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG07482-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Wagholi	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007029F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.1	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.7	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	496	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	6	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	128	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	336	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	53.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75



Report No.07482 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	179	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	16.0	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	86.6	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	29.2	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.556	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.038	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.3	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.252	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.055	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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

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

ULR- TC748721000007029F



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors
 Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162,2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG07482-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Wagholi	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


Kishor C. Yeole

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Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
Phone : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG07483-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Kapustalani	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007030F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.2	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.6	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7	Total Dissolved Solids	mg/L	566	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	6	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	188	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	418	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	52.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75



Report No.07483 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	170	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	36.0	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	87.4	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	48.6	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.583	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.035	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.5	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.216	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.043	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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ULR- TC748721000007030F



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 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111
 Phone : 91-712-2612162,2612212 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG07483-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Kapustalani	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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

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

Test Report

Report No.: ME-NG07480-210528-SA-RIPL-AMRAVATI		Date: 28.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Pimpalvihirgaon Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007027F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.5	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	8.2	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	360	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	<5	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	290	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	326	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	14	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No. 07480 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	26.6	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	2.22	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	73	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	35	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.532	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.106	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.035	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

ULR- TC748721000007027F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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TC-7487

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Phone: 2582 0658/ 3139/ 1663/ 3154 WP: 8928346894 thane@mahabal.com



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

Test Report

Report No.: ME-NG07480-210528-SA-RIPL-AMRAVATI		Date: 28.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well Water Pimpalvihirgaon Village	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


Kishor C. Yeole
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Test Report

Report No.: ME-NG07481-210528-SA-RIPL-AMRAVATI		Date: 28.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Talkhanda	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007028F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.7	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.9	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	437	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	<5	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	250	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	322	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	32	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No.07481 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	40.2	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	39.2	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	89.0	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	24.3	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.546	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	<0.1	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)						
19	Iron (as Fe)	mg/L	0.327	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
20	Manganese (as Mn)	mg/L	<0.04	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
23	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Zinc (as Zn)	mg/L	0.052	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
28	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

ULR- TC748721000007028F

END

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Kishor C. Yeole

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TC-7487

Note:

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Test Report

Report No.: ME-NG07481-210528-SA-RIPL-AMRAVATI		Date: 28.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Talkhanda	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

END

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Effluent Sample Analysis Report

Report No.: ME-NG07475-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Industrial Effluent	Sample Collected by	Laboratory
Sampling Location	Leachate Water	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	30.05.2021

ULR-TC748721000007022F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Turbidity	NTU	7.7	APHA 23 rd Ed. 2017, 2130-B, 2-13
4.	pH	-	7.9	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
5.	Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
6.	Total Dissolved Solids	mg/L	1147	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
7.	Total Suspended Solids	mg/L	21	APHA 23 rd Ed. 2017, 2540-D, 2-69
8.	Alkalinity Total (as CaCO ₃)	mg/L	200	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
9.	Total Hardness (as CaCO ₃)	mg/L	1200	APHA 23 rd Ed. 2017, 2340-C, 2-48
10.	Chloride (as Cl)	mg/L	162	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
11.	Sulphate (as SO ₄)	mg/L	548	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199



Report No.07475 Cont..

Sr. No.	Parameter	Unit	Result	Method Reference
12.	Nitrate (as NO ₃)	mg/L	2.39	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
13.	Calcium (as Ca)	mg/L	373	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
14.	Magnesium (as Mg)	mg/L	270	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
15.	Fluoride (as F)	mg/L	0.699	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
16.	Boron (as B)	mg/L	<0.1	APHA 23 rd Ed. 2017, 4500-B B, 4-27
17.	Dissolved Oxygen	mg/L	5.8	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
18.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
Residues in water (Trace metal Element)				
19.	Iron (as Fe)	mg/L	1.321	APHA 23 rd Ed. 2017, 3111-B, 3-20
20.	Zinc (as Zn)	mg/L	0.041	IS 3025 (Part-2) 2004, RA 2014
21.	Manganese (as Mn)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
23.	Copper (as Cu)	mg/L	<0.04	APHA 23 rd Ed. 2017, 3111-B, 3-20
24.	Aluminium (as Al)	mg/L	<0.025	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
25.	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
26.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37),1988 RA 2009
27.	Selenium (as Se)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3114-C, 3-40
28.	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected				

ULR-TC748721000007022F

END

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Test Report

Report No.: ME-NG07475-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Industrial Effluent	Sample Collected by	Laboratory
Sampling Location	Leachate Water	Sample Quantity/Packing	500mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)				
1.	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
2.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Remarks: N.D.: Not Detected				

END

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Test Report

Report No.: ME-NG07476-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Malegaon Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007023F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	NA	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	4.7	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	8.4	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7.	Total Dissolved Solids	mg/L	259	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	13	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	146	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	172	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	31.0	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	37.0	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13.	Nitrate (as NO ₃)	mg/L	1.32	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	35.3	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	20.4	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.713	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.038	APHA 23 rd Ed. 2017, 4500-B B, 4-27



Report No.07476 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.2	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)				
19.	Iron (as Fe)	mg/L	0.440	APHA 23 rd Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	<0.04	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.073	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
28.	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected; NA: Not Applicable				

END

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Test Report

Report No.: ME-NG07476-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Malegaon Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected;				

-----END-----

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Test Report

Report No.: ME-NG07477-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Wagholi Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

ULR- TC748721000007024F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 05):1984, Reaffirmed 2006
3.	Taste	-	NA	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4.	Turbidity	NTU	1.5	APHA 23 rd Ed. 2017, 2130-B, 2-13
5.	pH	-	7.4	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6.	Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	457	IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)
8.	Total Suspended Solids	mg/L	11	APHA 23 rd Ed. 2017, 2540-D, 2-69
9.	Alkalinity Total (as CaCO ₃)	mg/L	88	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10.	Total Hardness (as CaCO ₃)	mg/L	306	APHA 23 rd Ed. 2017, 2340-C, 2-48
11.	Chloride (as Cl)	mg/L	56.0	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO ₄)	mg/L	177	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13.	Nitrate (as NO ₃)	mg/L	1.12	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14.	Calcium (as Ca)	mg/L	90.6	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15.	Magnesium (as Mg)	mg/L	19.4	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16.	Fluoride (as F)	mg/L	0.431	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17.	Boron (as B)	mg/L	0.032	APHA 23 rd Ed. 2017, 4500-B B, 4-27



Report No.07477 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
18.	Dissolved Oxygen	mg/L	6.4	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
Residues in water (Trace metal Element)				
19.	Iron (as Fe)	mg/L	0.155	APHA 23 rd Ed. 2017, 3111-B, 3-20
20.	Manganese (as Mn)	mg/L	<0.04	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
21.	Aluminium (as Al)	mg/L	<0.025	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
22.	Cadmium (as Cd)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
23.	Chromium Toal (as Cr)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
24.	Copper (as Cu)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
25.	Lead (as Pb)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26.	Zinc (as Zn)	mg/L	0.026	APHA 23 rd Ed. 2017, 3111-B, 3-20
27.	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 37): 1988, RA 2009
28.	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected; NA: Not Applicable				

ULR- TC748721000007024F

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

Report No.: ME-NG07477-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Surface Water	Sample Collected by	Laboratory
Sampling Location	Wagholi Pond	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1No. PVC Can 1L X 1No.Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Surface Water)				
1.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
4.	Selenium (as Se)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected;				

-----END-----

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Test Report

Report No.: ME-NG07478-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	30.05.2021

ULR- TC748721000007025F

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1	Colour	Hazen	<1	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2006
4	Turbidity	NTU	1.1	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	7.5	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Residual Free Chlorine	mg/L	<0.05	0.2 Min.	1.0 Max.	APHA 23 rd Ed. 2017, 4500-CI G, 4-72
7	Total Dissolved Solids	mg/L	440	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
8	Total Suspended Solids	mg/L	<5	-	-	APHA 23 rd Ed. 2017, 2540-D, 2-69
9	Alkalinity Total (as CaCO ₃)	mg/L	198	200 Max.	600 Max.	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
10	Total Hardness (as CaCO ₃)	mg/L	304	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
11	Chloride (as Cl)	mg/L	32.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-CI-B, 4-75



Report No.07478 cont...

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
12	Sulphate (as SO ₄)	mg/L	90.0	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	38.5	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Calcium (as Ca)	mg/L	83.4	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
15	Magnesium (as Mg)	mg/L	23.3	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
16	Fluoride (as F)	mg/L	0.629	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
17	Boron (as B)	mg/L	0.041	0.5 Max.	2.4 Max.	APHA 23 rd Ed. 2017, 4500-B B, 4-27
18	Dissolved Oxygen	mg/L	6.4	-	-	APHA 23 rd Ed. 2017, 4500-O, B & C, 4-144, 4-146
19	Oil and Grease	mg/L	N.D.			IS 3025 (Part 39):1991
Residues in water (Trace metal Element)						
20	Iron (as Fe)	mg/L	0.155	0.3 Max.	No relaxation.	APHA 23 rd Ed. 2017, 3111-B, 3-20
21	Manganese (as Mn)	mg/L	0.011	0.1 Max.	0.3 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20 AAS Method
22	Aluminium (as Al)	mg/L	<0.025	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
23	Cadmium (as Cd)	mg/L	N.D.	0.003Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
24	Chromium Total (as Cr)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
25	Copper (as Cu)	mg/L	N.D.	0.05 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
26	Lead (as Pb)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3111-B, 3-20
27	Zinc (as Zn)	mg/L	0.044	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 3111-B, 3-20
28	Arsenic (as As)	mg/L	N.D.	0.01 Max.	No relaxation	IS 3025 (Part 37),1988 RA 2009
29	Mercury (as Hg)	mg/L	N.D.	0.001Max.	No relaxation	APHA 23 rd Ed. 2017, 3112-B, 3-25
Remarks: N.D.: Not Detected						

END

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

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

ULR- TC748721000007025F



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Test Report

Report No.: ME-NG07478-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Ground Water/Grab	Sample Collected by	Laboratory
Sampling Location	Well water of Mr.Narayan Lomte Farm back side of Ash Dyke Area	Sample Quantity/Packing	2 L X 1 No. PVC Can 500mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	28.05.2021

Sr. No.	Parameter	Unit	Result	Limit for Drinking water as per IS 10500:2012		Method Reference
				Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Discipline: Chemical Testing; Product Group: Water (Ground Water)						
1.	Oil and Grease	mg/L	N.D.	-	-	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1
2.	Cyanide (as CN)	mg/L	N.D.	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
3.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	N.D.	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
4.	Selenium (as Se)	mg/L	N.D.	0.01 Max.	No relaxation	APHA 23 rd Ed. 2017, 3500-C, 3-95
Remarks: N.D.: Not Detected						

-----END-----

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Test Report

Report No.: ME-NG07485-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description /Type	Soil/Grab	Sample Collected by	Laboratory
Sampling Location	Near Ash Dyke Area(Pond Site)	Sample Quantity/Packing	1 kg X 1 No. Polyethylene Bag
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	Manual on Soil, Plant & Water Analysis		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	30.05.2021

Sr. No.	Parameter	Unit	Result	Method Reference
1.	pH(1+ 5) Suspension	-	8.1	FAO Sec.III.1 page No. 65
2.	Electrical Conductivity (1+ 5) Suspension	μ S/cm	77	FAO Sec.III.5, Page No. 85
3.	Moisture content	%	8.85	IS 2720 (Part II): 1973, RA 2002, Ed.3.1
4.	Organic Carbon	%	0.188	WLII, Sec. B7 Page No. 10
5.	Cation Exchange Capacity	meq/100 gm	41.65	FAO Sec.III.7.2, Page No. 104
6.	Available Nitrogen	mg/kg	47.58	FAO Sec.III.11, Page No. 145
7.	Available phosphate	mg/kg	8.24	FAO Sec.III.12.-1, Page No. 157
8.	Available Potassium	mg/kg	0.338	FAO Sec.III.12.-1, Page No. 157
9.	Available Magnesium	meq/100 gm	30.77	FAO Sec.III.8-1, Page No. 115
10.	Available Calcium	meq/100 gm	9.60	FAO Sec.III.8-1, Page No. 115

Remarks: FAO- Food and agricultural association of UN, WLII – Wildlife institute of India

END

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Soil Sample Analysis Report

Report No.: ME-NG07485-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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		Order Reference:
			SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021
Sample Description/Type	Soil/Grab	Sample Collected by	Laboratory
Sampling Location	Near Ash Dyke Area(Pond Site)	Sample Quantity/Packing	1 kg X 1 No. Polythene Bag
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	Manual on Soil, Plant & Water Analysis		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	30.05.2021

Sr. No.	Parameter	Unit	Result	Method Reference	
Discipline: Chemical Testing; Product Group: Pollution & Environment (Soil)					
1.	Texture	Sand	%	67.2	Manual of Soil Testing Department of Agriculture Co-operation Ministry of Agriculture India Jan 2011Sec-4-17Page No. 115 WI/SAP/SE Issue 03 2018
		Silt	%	8.0	
		Clay	%	24.8	
2.	Soil Texture	-	Sandy Clay Loam	Manual of Soil Testing Department of Agriculture Co-operation Ministry of Agriculture India Jan 2011Sec-4-17Page No. 115 WI/SAP/SE Issue 03 2018	

Remarks: All results are as received basis.

-----END-----

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QF/5.10/1-A Amend. No.00 Dt.01.02.2009

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(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)
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Phone : 91-712-2612162, 2612212 **Email**: mahabal.nagpur@gmail.com

Test Report

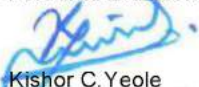
Report No.: ME-NG07470-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
Name and Address of Customer	RATTANINDIA POWER LIMITED Plot No.D-2 & D-2 (PART) at Additional MIDC, Village-Nandgaonpeth, Tal & Dist: Amravati 444 901	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	1.STP Plant Outlet 2.STP Colony Outlet	Sample Quantity/Packing	2 L X 2 No. PVC Can 100mL X 2 No. PVC Can
Date of Sampling	17.05.2021	Date of Receipt of Sample	18.05.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2003; APHA 23 rd Ed. 2017, 1060-B, 1-40;		
Date of Start of Analysis	18.05.2021	Date of Completion of Analysis	24.05.2021

ULR- TC748721000007017F

Sr. No.	Parameter	Unit	Result		Limit as per MPCB Consent	Method Reference
			1	2		
Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)						
1	pH	-	8.8	8.7	-	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2	Biochemical Oxygen Demand (3 days 27°C)	mg/L	7.3	9.7	30 Max.	IS 3025 (Part 44): 1993, Reaffirmed 2009
3	Chemical Oxygen Demand	mg/L	24	32	100 Max.	APHA 23 rd Ed. 2017, 5220-B, 5-18
Remarks:						

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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Test Report

Report No.: ME-NG07934-210530-SA-RIPL-AMRAVATI		Date: 30.05.2021	
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	Order Reference:	
		SO No. 3382017462 Dt.16.08.2019 valid 31.05.2021	
Sample Description/Type	Noise Level Monitoring	Sample Collected by	NA
Date of Sampling	17.05.2021 to 18.05.2021		
Sampling Procedure	IS 9876:1981 & manufacturer Manual		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution Source Noise (Excluding Vibrations)			
Location	Unit	Result	
		Max.	Min.
Near Main Gate	dB(A)	65.9	63.2
Near Compressor Room	dB(A)	67.8	64.2
Near CHP Crusher House	dB(A)	69.2	63.4
Near Colony	dB(A)	65.2	61.6
Turbine area No. 3 & 4	dB(A)	74.8	72.6
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	
Remark :			

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.


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