



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

● ENVIRONMENT ● FOOD ● ANIMAL FOOD & FEED ● MICROBIOLOGY



TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR No.: TC138772400010762F

TEST REPORT

Lab Inward No. : SL/24-25/11/MST/50e	Date of Sampling : 30 /10/2024
Client Name: M/s. VEDANTA LIMITED (MET COKE DIVISION) (WASTE HEAT RECOVERY POWER PLANT – I)	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 &74, SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA	Sample Drawn By : SATPL Representative 30/10/2024

Order / Reference: As Per TRF dated- 30/10/2024
 Monitoring For : Stack Emission
 Sampling Procedure : Each Analytical method covers the sampling procedure as well
 Limits : - Consent No.12/2023-PCB/1872509/R00013366

STACK DETAILS

Identification : Diesel Generator (590 KVA)				
Shape	ROUND	Cross sectional area (m ²)	0.04909	
Height (m)	12	Fuel Used	H.S.D	
Material of Construction	M.S	Consumption of Fuel (lit/hr)	123	
Temperature (°C)	234	Velocity Of Flue Gases (m/s)	13.77	
Diameter at port (m)	0.25	Volume Of Flue Gases (Nm ³ /hr)	1431.18	
		Load on DG[%]	80 %	

RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
1	Particulate Matter as (PM)	0.08	<0.3	g/ kw-hr	IS 11255(Part-1)1985;R 2019
2	Sulphur Dioxide (SO ₂)	0.33	<8.856	kg/ Hrs	IS 11255(Part-2)1985;R 2019
3	Oxides of Nitrogen as NO _x	0.37	<9.2	g/ kw-hr	IS 11255(Part-7)2005;R 2022

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

Disclaimer: 'Information is supplied by customers represented in italic font'

Review By,

For Shreeji Aqua Treatment Pvt.Ltd.

Sr.Analyst



Quality Manager
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www. shreejiaqua.com

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TEST REPORT

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Client Name: M/s. VEDANTA LIMITED (MET COKE DIVISION) (WASTE HEAT RECOVERY POWER PLANT – I)	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 &74, SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA	
Sample Drawn By : SATPL Representative 30/10/2024	

Order / Reference: As Per TRF dated- 30/10/2024

Monitoring For : Stack Emission

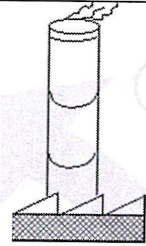
Sampling Procedure : Each Analytical method covers the sampling procedure as well

Limits : - Consent No.12/2023-PCB/1872509/R00013366

STACK DETAILS

Identification : Diesel Generator (590 KVA)

Shape	ROUND	Cross sectional area (m ²)	0.04909
Height (m)	12	Fuel Used	H.S.D
Material of Construction	M.S	Consumption of Fuel (lit/hr)	123
Temperature (°C)	234	Velocity Of Flue Gases (m/s)	13.77
Diameter at port (m)	0.25	Volume Of Flue Gases (Nm ³ /hr)	1431.18
		Load on DG[%]	80 %



RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
4	Carbon Monoxide (CO)	0.09	<3.5	g/ kw-hr	Flue Gas Analyser
5	Hydrocarbon	0.13	<1.3	g/ kw-hr	Flue Gas Analyser

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
114C664	Stack Kit	SATPL/AIR/SMK/03	FF03217	16/03/2024	15/03/2025
55627	Digital Electronic Balance	SL/SMB/41	ACS/456/CM 30/230072	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34	-----	Inhouse Calibration	

Review By,

For Shreeji Aqua Treatment Pvt.Ltd.

Sr.Analyst



Quality Manager
Authorized Signatory

-----End Of Test Report-----

The results relate to sample tested.



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TC-13877

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ULR No.: TC138772400010763F

TEST REPORT

Lab Inward No. : SL/24-25/11/MST/50f	Date of Sampling : 30/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
	Sample Drawn By : SATPL Representative 30/10/2024
Order / Reference: As Per TRF dated- 30/10/2024	
Monitoring For : Stack Emission	
Sampling Procedure : Each Analytical method covers the sampling procedure as well	
Limits : - Consent No. 12/2020-PCB/531074/R0004147	

STACK DETAILS

Identification : Diesel Generator (750 KVA)				
Shape	ROUND	Cross sectional area (m ²)	0.0314	
Height (m)	15	Fuel Used	H.S.D	
Material of Construction	M.S	Consumption of Fuel (Lit/hr)	150	
Temperature (°C)	255	Velocity Of Flue Gases (m/s)	14.37	
Diameter at port (m)	0.20	Volume Of Flue Gases (Nm ³ /hr)	917.75	
		Load on DG[%]	80 %	

RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
1	Particulate Matter as (PM)	0.05	<0.3	g/ kw-hr	IS 11255(Part-1)1985;R 2019
2	Sulphur Dioxide (SO ₂)	0.26	<5.4	kg/ Hrs	IS 11255(Part-2)1985;R 2019
3	Oxides of Nitrogen as NO _x	0.19	<9.2	g/ kw-hr	IS 11255(Part-7)2005;R 2022

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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For Shreeji Aqua Treatment Pvt.Ltd.

Sr.Analyst



Quality Manager
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Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT

Lab Inward No. : SL/24-25/11/MST/50f	Date of Sampling : 30/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
Sample Drawn By : SATPL Representative 30/10/2024	

Order / Reference: As Per TRF dated- 30/10/2024

Monitoring For : Stack Emission

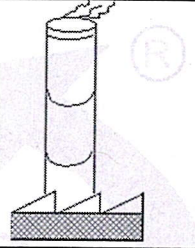
Sampling Procedure : Each Analytical method covers the sampling procedure as well

Limits : - Consent No. 12/2020-PCB/531074/R0004147

STACK DETAILS

Identification : Diesel Generator (750 KVA)

Shape	ROUND	Cross sectional area (m ²)	0.0314
Height (m)	15	Fuel Used	H.S.D
Material of Construction	M.S	Consumption of Fuel (Lit/hr)	150
Temperature (°C)	255	Velocity Of Flue Gases (m/s)	14.37
Diameter at port (m)	0.20	Volume Of Flue Gases (Nm ³ /hr)	917.75
		Load on DG[%]	80 %



RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
4	Carbon Monoxide (CO)	0.04	<3.5	g/ kw-hr	Flue Gas Analyser
5	Hydrocarbon	0.07	<1.3	g/ kw-hr	Flue Gas Analyser

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
114C664	Stack Kit	SATPL/AIR/SMK/03	FF03217	16/03/2024	15/03/2025
55627	Digital Electronic Balance	SL/SMB/41	ACS/456/CM 30/230072	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34	-----	Inhouse Calibration	

Review By,

For Shreeji Aqua Treatment Pvt.Ltd.

Sr.Analyst



Quality Manager
Authorized Signatory

-----End Of Test Report-----

The results relate to sample tested.

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

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TC-13877

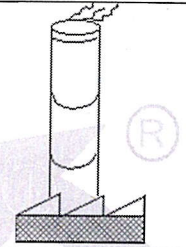
ULR No : TC138772400010760F

TEST REPORT

Lab Inward No. : SL/24-25/10/MST/99N	Date of Sampling : 30/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
	Sample Drawn By : SATPL Representative 30/10/2024
Order / Reference: As Per TRF dated- 30/10/2024	
Monitoring For : Stack Emission	
Sampling Procedure : Each Analytical method covers the sampling procedure as well	
Limits : Consent No. 12/2020-PCB/531074/R0004147	

STACK DETAILS

Identification : WASTE HEAT RECOVERY BOILER NO - 1			
Shape	ROUND	Cross sectional area (m ²)	3.1415
Height (m)	50.0	Fuel Used	Waste Heat of Coke Oven Flue Gas
Material of Construction	M.S	Consumption of Fuel (Nm ³ /hr)	58000
Temperature (°C)	158	Velocity Of Flue Gases (m/s)	13.30
Diameter at port (m)	2.0	Volume Of Flue Gases (Nm ³ /hr)	105023.72
		Load	---



RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
1	Particulate Matter as (PM)	12.87	<100	mg/Nm ³	IS 11255(Part-1)1985;R 2019
2	Sulphur Dioxide (SO ₂)	3.49	<500	Kg/Hrs	IS 11255(Part-2)1985;R 2019
3	Oxides of Nitrogen as NO _x	23.19	<500	mg/Nm ³	IS 11255(Part-7)2005;R 2022

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

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Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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TEST REPORT

Lab Inward No. : SL/24-25/10/MST/99N	Date of Sampling : 30/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 05/11/2024
	End of Analysis : 09/11/2024
	Report Date : 09/11/2024
	Sample Drawn By : SATPL Representative 30/10/2024

Order / Reference: As Per TRF dated- 30/10/2024

Monitoring For : Stack Emission

Sampling Procedure : Each Analytical method covers the sampling procedure as well

Limits : Consent No. 12/2020-PCB/531074/R0004147

STACK DETAILS

Identification : WASTE HEAT RECOVERY BOILER NO -1

Shape	ROUND	Cross sectional area (m ²)	3.1415	
Height (m)	50.0	Fuel Used	Waste Heat of Coke Oven Flue Gas	
Material of Construction	M.S	Consumption of Fuel (Nm ³ /hr)	58000	
Temperature (°C)	158	Velocity Of Flue Gases (m/s)	13.30	
Diameter at port (m)	2.0	Volume Of Flue Gases (Nm ³ /hr)	105023.72	
		Load	---	

RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
4	Moisture	1.62	--	%	IS 11255(Part III)

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
I14C664	Stack Kit	SATPL/AIR/SMK/03	FF03217	16/03/2024	15/03/2025
556277	Digital Electronic Balance	SL/SMB/41	ACS/456/CM30/230072	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34	-----	Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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ULR No : TC138772400010761F

TEST REPORT

Lab Inward No. : SL/24-25/10/MST/990	Date of Sampling : 22/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 23/10/2024
	End of Analysis : 28/10/2024
	Report Date : 28/10/2024
	Sample Drawn By : SATPL Representative 22/10/2024

Order / Reference: As Per TRF dated- 22/10/2024

Monitoring For : Stack Emission

Sampling Procedure : Each Analytical method covers the sampling procedure as well

Limits : Consent No. No. 12/2020-PCB/531074/R0004147

STACK DETAILS

Identification : WASTE HEAT RECOVERY BOILER NO - 2

Shape	ROUND	Cross sectional area (m ²)	3.1415	
Height (m)	50.0	Fuel Used	Waste Heat of Coke Oven Flue Gas	
Material of Construction	M.S	Consumption of Fuel (Nm ³ /hr)	58000	
Temperature (°C)	152	Velocity Of Flue Gases (m/s)	13.80	
Diameter at port (m)	2.0	Volume Of Flue Gases (Nm ³ /hr)	111597.18	
		Load	-	

RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
1	Particulate Matter as (PM)	13.02	<100	mg/Nm ³	IS 11255(Part-1)1985;R 2019
2	Sulphur Dioxide (SO ₂)	3.71	<500	Kg/Hrs	IS 11255(Part-2)1985;R 2019
3	Oxides of Nitrogen as NO _x	23.67	<500	mg/Nm ³	IS 11255(Part-7)2005;R 2022

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

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TEST REPORT

Lab Inward No. : SL/24-25/10/MST/990	Date of Sampling : 22/10/2024
Client Name: M/s. VEDANTA LTD. WASTE HEAT RECOVERY PLANT – II & COKE OVEN PLANT - EXPANSION SURVEY NO. 205, 207 & 33, VILLAGE SURLA, BICHOLIM - GOA.	Start of analysis : 23/10/2024
	End of Analysis : 28/10/2024
	Report Date : 28/10/2024
	Sample Drawn By : SATPL Representative 22/10/2024

Order / Reference: As Per TRF dated- 22/10/2024

Monitoring For : Stack Emission

Sampling Procedure : Each Analytical method covers the sampling procedure as well

Limits : Consent No. No. 12/2020-PCB/531074/R0004147

STACK DETAILS

Identification : WASTE HEAT RECOVERY BOILER NO - 2				
Shape	ROUND	Cross sectional area (m ²)	3.1415	
Height (m)	50.0	Fuel Used	Waste Heat of Coke Oven Flue Gas	
Material of Construction	M.S	Consumption of Fuel (Nm ³ /hr)	58000	
Temperature (°C)	152	Velocity Of Flue Gases (m/s)	13.80	
Diameter at port (m)	2.0	Volume Of Flue Gases (Nm ³ /hr)	111597.18	
		Load	-	

RESULTS

Sr. No.	Description	Results	Limit	Unit	Method
4	Moisture	1.65	--	%	IS 11255(Part III)

Note-NA-Not Applicable.

Remark- : Reference to above mentioned monitoring report all the parameters are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
I14C664	Stack Kit	SATPL/AIR/SMK/03	FF03217	16/03/2024	15/03/2025
556277	Digital Electronic Balance	SL/SMB/41	ACS/456/CM30/230072	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34	-----	Inhouse Calibration	

Review By,

For Shreeji Aqua Treatment Pvt.Ltd.

Sr. Analyst



Quality Manager
Authorized Signatory

---End of Test Report---

The results relate to sample tested.