



# Royal

## Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 5026/06/2021-22

Date : 30/06/2021

## REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallantt Metal Limited  
Survey No. 175/1, Near toll gate,  
Village : Samakhyali,  
Taluka : Bhachau,  
Kutch, Gujarat.

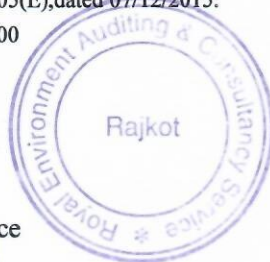
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	06/06/2021
02.	Time of sampling	Hr	11.30
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	31
08.	Stack Temperature	Degree Centi.	112
09.	Average Velocity of Flue Gases	M/Sec.	7.4
10.	Isokinetic flow rate for P.M. Sampling	LPM	20
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm <sup>3</sup>	50
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	45.2
14.	Permissible Limit for SO <sub>2</sub>	mg/Nm <sup>3</sup>	600
15.	Measured Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	90.8
16.	Permissible Limit for NOx	mg/Nm <sup>3</sup>	300
17.	Measured Concentration of NOx	mg/Nm <sup>3</sup>	82.5

\*Permissible limit are as per MoEF&CC Notification S.O.3305(E), dated 07/12/2015.

Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Done On. : 13/10/2020

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Jagdish  
Analyst



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Ref. No. : 5028/06/2021-22

Date : 30/06/2021

## REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Metal Limited**

Survey No. 175/1, Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack - 3	Stack - 4
1	Date of sampling	---	06/06/2021	06/06/2021
2	Time of sampling	Hr	10.50	12.20
3	Stack Attached to	---	<b>Rotary Kiln - 1, 2</b>	<b>Rotary Kiln - 3</b>
4	Air Pollution Control Measures	---	Recouperetur & ESP	Recouperetur & ESP
5	Stack Diameter	Meter	1.5	1.5
6	Stack Height	Meter	35	35
7	Stack Temperature	Degree Centi.	128	134
8	Ambient Temperature	Degree Centi.	32	33
9	Average Velocity of Flue Gases	M/Sec.	8.1	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	19	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	<b>Permissible Limit for P.M.</b>	<b>mg/Nm<sup>3</sup></b>	<b>100</b>	<b>100</b>
13	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	54.4	75.6
14	<b>Permissible Limit for SO<sub>2</sub></b>	<b>ppm</b>	<b>100</b>	<b>100</b>
15	Measured Concentration of SO <sub>2</sub>	ppm	66.2	74.9
16	<b>Permissible Limit for Nox</b>	<b>ppm</b>	<b>50</b>	<b>50</b>
17	Measured Concentration of Nox	ppm	28.3	26.8
18.	<b>Permissible Limit for CO*</b>	<b>%(V/V)</b>	<b>1.0%</b>	<b>1.0%</b>
19.	Measured Concentration of CO*	%(V/V)	0.7	0.8

\*Permissible limit are as per MoEF&CC Notification G.S.R.414(E), dated 30/05/2008.

Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Done On. : 13/10/2020

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Ref. No. : 5029/06/2021-22

Date : 30/06/2021

## REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Metal Limited**  
Survey No. 175/1, Near toll gate,  
Village : Samakhyali,  
Taluka : Bhachau,  
Kutch, Gujarat.

Test Method : As per IS Standards - 11255\_1/2/3/7

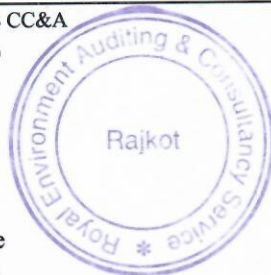
Sr. No.	Particulars	Unit	Stack - 5	Stack - 6
1	Date of sampling	---	06/06/2021	06/06/2021
2	Time of sampling	Hr	14.10	15.05
3	Stack Attached to	---	<b>Induction Furnace - 1 &amp; 4</b>	<b>Induction Furnace - 2 &amp; 3</b>
4	Air Pollution Control Measures	---	Cyclone Separator & Wet Scrubber	Cyclone Separator & Wet Scrubber
5	Stack Diameter	Meter	1.5	1.5
6	Stack Height	Meter	48	30
7	Stack Temperature	Degree Centi.	128	132
8	Ambient Temperature	Degree Centi.	30	31
9	Average Velocity of Flue Gases	M/Sec.	6.4	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	19	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	<b>Permissible Limit for P.M.</b>	<b>mg/Nm<sup>3</sup></b>	<b>50</b>	<b>50</b>
13	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	32.4	31.2
14	<b>Permissible Limit for SO<sub>2</sub></b>	<b>ppm</b>	<b>100</b>	<b>100</b>
15	Measured Concentration of SO <sub>2</sub>	ppm	35.2	36.5
16	<b>Permissible Limit for NO<sub>x</sub></b>	<b>ppm</b>	<b>50</b>	<b>50</b>
17	Measured Concentration of NO <sub>x</sub>	ppm	24.8	26.4

\*Permissible limit not specified in EC copy as well as in GPCB CC&A

Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Done On. : 13/10/2020

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