



Royal

Environment Auditing & Consultancy Service

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

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Ref. No. : 2026/03/2020-21

Date : 23/03/2021

REPORT OF STACK EMISSION ANALYSIS

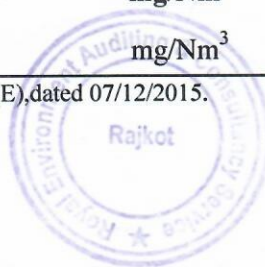
Name of company : Gallantt Metal Limited
Survey No. 175/1, Near toll gate,
Village : Samakhali,
Taluka : Bhachau,
Kutch, Gujarat.

Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	07/03/2021
02.	Time of sampling	Hr	11.10
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.	115
09.	Average Velocity of Flue Gases	M/Sec.	8.5
10.	Isokinetic flow rate for P.M. Sampling	LPM	21
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	50
13.	Measured Concentration of P.M.	mg/Nm ³	46.3
14.	Permissible Limit for SO ₂	mg/Nm ³	600
15.	Measured Concentration of SO ₂	mg/Nm ³	92.5
16.	Permissible Limit for NOx	mg/Nm ³	300
17.	Measured Concentration of NOx	mg/Nm ³	86.2

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

Ref. No. : 2028/03/2020-21

Date : 23/03/2021

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	---	07/03/2021	07/03/2021
2	Time of sampling	Hr	11.40	12.30
3	Stack Attached to	---	Rotary Kiln - 1, 2	Rotary Kiln - 3
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	138
8	Ambient Temperature	Degree Centi.	31	31
9	Average Velocity of Flue Gases	M/Sec.	6.8	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	20	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm³	100	100
13	Measured Concentration of P.M.	mg/Nm ³	57.4	75.5
14	Permissible Limit for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	65.2	78.3
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	28.3	25.9
18.	Permissible Limit for CO*	% (V/V)	1.0%	1.0%
19.	Measured Concentration of CO*	% (V/V)	0.6	0.7

*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. : 2029/03/2020-21

Date : 23/03/2021

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	---	07/03/2021	07/03/2021
2	Time of sampling	Hr	14.30	15.50
3	Stack Attached to	---	Induction Furnace - 1 & 4	Induction Furnace - 2 & 3
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.	129	135
8	Ambient Temperature	Degree Centi.	32	32
9	Average Velocity of Flue Gases	M/Sec.	6.8	7.3
10	Isokinetic flow rate for P.M. Sampling	LPM	22	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	50	50
13	Measured Concentration of P.M.	mg/Nm ³	34.4	33.5
14	Permissible Limit for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	33.5	38.2
16	Permissible Limit for NO _x	ppm	50	50
17	Measured Concentration of NO _x	ppm	26.5	28.3

*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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