



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s Bal Adalat, Gondal Road, RAJKOT - 360 002.
Ph. +91 281 2360695 Email : royaleenvironment@live.com admin@royalconsultancy.com

Ref. No. : 426/06/2020-21

Date : 15/06/2020

REPORT OF STACK EMISSION ANALYSIS

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

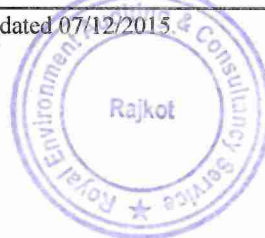
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	01/06/2020
02.	Time of sampling	Hr	10.40
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	34
08.	Stack Temperature	Degree Centi.	131
09.	Average Velocity of Flue Gases	M/Sec.	7.1
10.	Isokinetic flow rate for P.M. Sampling	LPM	17
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm³	50
13.	Measured Concentration of P.M.	mg/Nm ³	44.5
14.	Permissible Limit for SO₂	mg/Nm³	600
15.	Measured Concentration of SO ₂	mg/Nm ³	91.5
16.	Permissible Limit for NO_x	mg/Nm³	300
17.	Measured Concentration of NO _x	mg/Nm ³	88.4

*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. : 15/10/2019

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Jaykish
Analyst



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REPORT OF STACK EMISSION ANALYSIS

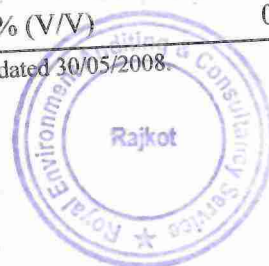
Name of company : **Gallantt Metal Limited**
Survey No. 175/1, Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Test Method : As per IS Standards - 11255 1/2/3/7

Sr. No.	Particulars	Unit	Stack - 3	Stack - 4
1	Date of sampling	---	01/06/2020	01/06/2020
2	Time of sampling	Hr	11.30	12.45
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	132
8	Ambient Temperature	Degree Centi.	34	34
9	Average Velocity of Flue Gases	M/Sec.	7.3	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	17	18
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100
13	Measured Concentration of P.M.	mg/Nm ³	59.5	71.7
14	Permissible Limit for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	78.4	77.1
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	26.8	28.1
18.	Permissible Limit for CO*	% (V/V)	1.0%	1.0%
19.	Measured Concentration of CO*	% (V/V)	0.5	0.6

*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. : 15/10/2019



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Date : 15/06/2020

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Metal Limited**

Survey No. 175/1, Near toll gate,
Village : Samakhali,
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	---	01/06/2020	01/06/2020
2	Time of sampling	Hr	14.50	15.40
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.	128	131
8	Ambient Temperature	Degree Centi.	34	34
9	Average Velocity of Flue Gases	M/Sec.	7.5	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	20	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm³	50	50
13	Measured Concentration of P.M.	mg/Nm ³	31.5	33.5
14	Permissible Limit for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	29.6	30.4
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	27.6	28.4

*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. : 15/10/2019



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Jagdish
Analyst