



Royal

Environment Auditing & Consultancy Service

303-304, Shivaiik-7, B/s Bal Adalat, Gondal Road, RAJKOT - 360 002.
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Date : 18/03/2020

Ref. No. : 326/03/2020-21

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	---	15-03-20
02.	Time of sampling	Hr	10.30
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.	33
08.	Stack Temperature	Degree Centi.	128
09.	Average Velocity of Flue Gases	M/Sec.	6.5
10.	Isokinetic flow rate for P.M. Sampling	LPM	18
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	43.6
14.	Permissible Limit for SO ₂	mg/Nm ³	600
15.	Measured Concentration of SO ₂	mg/Nm ³	89.5
16.	Permissible Limit for NO _x	mg/Nm ³	300
17.	Measured Concentration of NO _x	mg/Nm ³	87.6

*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



D. J. J. J.

Royal Environment Auditing & Consultancy Service

(M)
Analyst



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Name of company : **Gallantt Metal Limited**

Survey No. 175/1, Near toll gate,

Village : Samakhyali,

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Kutch, Gujarat.

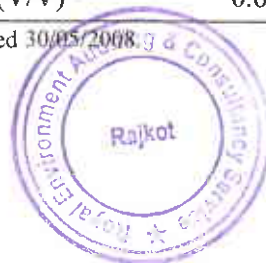
Test Method : As per IS Standards - 11255 1/2/3/7

Sr. No.	Particulars	Unit	Stack - 3	Stack - 4
1	Date of sampling	---	15-03-20	15-03-20
2	Time of sampling	Hr	11.20	12.35
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.	131	129
8	Ambient Temperature	Degree Centi.	33	33
9	Average Velocity of Flue Gases	M/Sec.	6.8	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	18	20
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	58.6	70.6
14	Permissible Limit for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	77.3	79.4
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	25.9	29.2
18.	Permissible Limit for CO*	% (V/V)	1.0%	1.0%
19.	Measured Concentration of CO*	% (V/V)	0.6	0.5

*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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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	---	15-03-20	15-03-20
2	Time of sampling	Hr	14.40	15.30
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.	131	135
8	Ambient Temperature	Degree Centi.	33	33
9	Average Velocity of Flue Gases	M/Sec.	7.2	6.5
10	Isokinetic flow rate for P.M. Sampling	LPM	19	20
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	30.6	34.6
14	Permissible Limit for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	28.4	28.5
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	26.5	27.3

*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. : 15/10/2019

S. J. J. J.



M
Analyst