



Royal

Environment Auditing & Consultancy Service

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Ref. No. : 8026/09/2021-22

Date : 01/10/2021

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	---	29/09/2021
02.	Time of sampling	Hr	10.00
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.	29
08.	Stack Temperature	Degree Centi.	117
09.	Average Velocity of Flue Gases	M/Sec.	6.8
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 ³	50
13.	Measured Concentration of P.M.	mg/Nm ³	42.6
14.	Permissible Limit for SO ₂	mg/Nm ³	600
15.	Measured Concentration of SO ₂	mg/Nm ³	94.3
16.	Permissible Limit for NO _x	mg/Nm ³	300
17.	Measured Concentration of NO _x	mg/Nm ³	85.4

*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. : 13/10/2020



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Ashish
Analyst



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Ref. No. : 8028/09/2021-22

Date : 01/10/2021

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	---	---	29/09/2021
2	Time of sampling	Hr	---	10.30
3	Stack Attached to	---	Rotary Kiln - 1, 2	Rotary Kiln - 3
4	Air Pollution Control Measures	---	Recouperatur & ESP	Recouperatur & ESP
5	Stack Diameter	Meter	1.5	1.5
6	Stack Height	Meter	35	35
7	Stack Temperature	Degree Centi.	---	125
8	Ambient Temperature	Degree Centi.	NOT	29
9	Average Velocity of Flue Gases	M/Sec.	RUNNING	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	---	19
11	Gaseous Sampling Flow Rate	LPM	---	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100
13	Measured Concentration of P.M.	mg/Nm ³	---	76.2
14	Permissible Limit for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	---	78.9
16	Permissible Limit for Nox	ppm	50	50
17	Measured Concentration of Nox	ppm	---	24.6
18.	Permissible Limit for CO*	% (V/V)	1.0%	1.0%
19.	Measured Concentration of CO*	% (V/V)	---	0.9

*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. : 8029/09/2021-22

Date : 01/10/2021

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Metal Limited**

Survey No. 175/1, Near toll gate,

Village : Samakhali,

Taluka : Bhachau,

Kutch, Gujarat.

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

Sr. No.	Particulars	Unit	Stack - 5	Stack - 6
1	Date of sampling	---	29/09/2021	29/09/2021
2	Time of sampling	Hr	11.00	11.30
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.	123	125
8	Ambient Temperature	Degree Centi.	30	30
9	Average Velocity of Flue Gases	M/Sec.	7.2	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	19	17
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	34.2	32.1
14	Permissible Limit for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	38.6	40.8
16	Permissible Limit for NO_x	ppm	50	50
17	Measured Concentration of NO _x	ppm	24.2	26.7

*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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Ref. No. : 727/09/2021-22

Date : 01/10/2021

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 - 2
01.	Date of sampling	---	29/09/2021
02.	Time of sampling	Hr	12:45
03.	Stack Attached to	---	Coal Crusher House
04.	Air Pollution Control Measures	---	Bag House
05.	Stack Height	Meter	29
06.	Stack Diameter	Meter	1.5
07.	Ambient Temperature	Degree Centi.	30
08.	Stack Temperature	Degree Centi.	118
09.	Average Velocity of Flue Gases	M/Sec.	7.6
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	150
13.	Measured Concentration of P.M.	mg/Nm ³	82
14.	Permissible Limit for CO*	---	---
15.	Measured Concentration of CO*	ppm	---

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

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