



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. : 40026/02/2021-22

Date : 24/02/2022

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	---	21/02/2022
02.	Time of sampling	Hr	10.00
03.	Stack Attached to	---	AFBC & CFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	95
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	30
08.	Stack Temperature	Degree Centi.	116
09.	Average Velocity of Flue Gases	M/Sec.	7.5
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	30
13.	Measured Concentration of P.M.	mg/Nm ³	24.2
14.	Permissible Limit for SO ₂	mg/Nm ³	100
15.	Measured Concentration of SO ₂	mg/Nm ³	61.8
16.	Permissible Limit for NO _x	mg/Nm ³	100
17.	Measured Concentration of NO _x	mg/Nm ³	40.1
18.	Permissible Limit for Hg	mg/Nm ³	0.03
19.	Measured Concentration of Hg	mg/Nm ³	0.021

*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. : 27/12/2021

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Ashish
Analyst



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Ref. No. : 40028/02/2021-22

Date : 24/02/2022

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 - 2	Stack - 3	Stack - 4
1	Date of sampling	---	21/02/2022	21/02/2022	21/02/2022
2	Time of sampling	Hr	11.10	12.00	12.50
3	Stack Attached to	---	Rotary Kiln - 1 & 2	Rotary Kiln - 3 & 4	Rotary Kiln - 5 (New) (350 TPD)
4	Air Pollution Control Measures	---	ESP	ESP	ESP
5	Stack Diameter	Meter	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48
7	Stack Temperature	Degree Centi.	120	123	128
8	Ambient Temperature	Degree Centi.	29	30	30
9	Average Velocity of Flue Gases	M/Sec.	7.2	6.8	8.2
10	Isokinetic flow rate for P.M. Sampling	LPM	20	20	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100	100
13	Measured Concentration of P.M.	mg/Nm ³	59.6	55.1	56.2
14	Permissible Limit for SO ₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	46.3	41.8	45.6
16	Permissible Limit for Nox	ppm	50	50	50
17	Measured Concentration of Nox	ppm	31.5	34.4	33.1

*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. : 27/12/2021

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Ref. No. : 40029/02/2021-22

Date : 24/02/2022

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

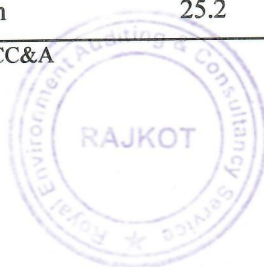
Sr. No.	Particulars	Unit	Stack - 5	Stack - 6	Stack - 7
1	Date of sampling	---	21/02/2022	21/02/2022	21/02/2022
2	Time of sampling	Hr	14.00	14.45	15.30
3	Stack Attached to	---	Induction Furnace - 1 & 2	Induction Furnace - 3 & 4	Induction Furnace - 5 & 6
4	Air Pollution Control Measures	---	Bag Filter with Spark Trapper	Bag Filter with Spark Trapper	Bag Filter with Spark Trapper
5	Stack Diameter	Meter	1.5	1.5	1.5
6	Stack Height	Meter	48	48	48
7	Stack Temperature	Degree Centi.	125	120	127
8	Ambient Temperature	Degree Centi.	30	31	31
9	Average Velocity of Flue Gases	M/Sec.	6.8	7.5	6.2
10	Isokinetic flow rate for P.M. Sampli	LPM	20	21	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	50	50	50
13	Measured Concentration of P.M.	mg/Nm ³	32.6	35.8	34.1
14	Permissible Limit for SO ₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	43.1	47.4	50.5
16	Permissible Limit for NO _x	ppm	50	50	50
17	Measured Concentration of NO _x	ppm	25.2	20.5	22.6

*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 : 27/12/2021

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Ref. No. : 3027/02/2021-22

Date : 24/02/2022

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 - 8
01.	Date of sampling	---	21/02/2022
02.	Time of sampling	Hr	16.15
03.	Stack Attached to	---	Reheating Furnace
04.	Air Pollution Control Measures	---	Bag Filter & Gas Cooler
05.	Stack Height	Meter	30
06.	Stack Diameter	Meter	1.5
07.	Ambient Temperature	Degree Centi.	31
08.	Stack Temperature	Degree Centi.	122
09.	Average Velocity of Flue Gases	M/Sec.	7.2
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	100
13.	Measured Concentration of P.M.	mg/Nm ³	58.4
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	35.2
16.	Permissible Limit for NO _x	ppm	50
17.	Measured Concentration of NO _x	ppm	23.1

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

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Analyst