



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 3126/11/2022-23

Date : 30/11/2022

## REPORT OF STACK EMISSION ANALYSIS

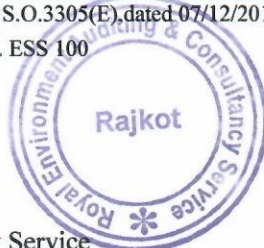
Name of company : Gallantt Ispat Limited  
Survey No. 175/1, Near toll gate,  
Village : Samakhyali,  
Taluka : Bhachau,  
Kutch, Gujarat.

Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	15/11/2022
02.	Time of sampling	Hr	9:00
03.	Stack Attached to	---	<b>AFBC &amp; CFBC Boiler of Power Plant</b>
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	95
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	29
08.	Stack Temperature	Degree Centi.	128
09.	Average Velocity of Flue Gases	M/Sec.	7.2
10.	Isokinetic flow rate for P.M. Sampling	LPM	20
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	<b>Permissible Limit for P.M.</b>	<b>mg/Nm<sup>3</sup></b>	<b>30</b>
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	16.8
14.	<b>Permissible Limit for SO<sub>2</sub></b>	<b>mg/Nm<sup>3</sup></b>	<b>100</b>
15.	Measured Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	36.9
16.	<b>Permissible Limit for NOx</b>	<b>mg/Nm<sup>3</sup></b>	<b>100</b>
17.	Measured Concentration of NOx	mg/Nm <sup>3</sup>	31.4
18.	<b>Permissible Limit for Hg</b>	<b>mg/Nm<sup>3</sup></b>	<b>0.03</b>
19.	Measured Concentration of Hg	mg/Nm <sup>3</sup>	0.014

\*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. : 3128/11/2022-23

Date : 30/11/2022

### REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Ispat 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	---	15/11/2022	15/11/2022	15/11/2022
2	Time of sampling	Hr	10:20	11:30	14:20
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.	128	112	130
8	Ambient Temperature	Degree Centi.	30	28	31
9	Average Velocity of Flue Gases	M/Sec.	7.2	7.1	6.3
10	Isokinetic flow rate for P.M. Sampling	LPM	19	20	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm <sup>3</sup>	100	100	100
13	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	38.2	40.8	37.2
14	Permissible Limit for SO <sub>2</sub>	ppm	100	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	30.9	32.6	28.8
16	Permissible Limit for Nox	ppm	50	50	50
17	Measured Concentration of Nox	ppm	24.7	22.8	21.6

\*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. : 27/12/2021

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Ref. No. : 3129/11/2022-23

Date : 30/11/2022

### REPORT OF STACK EMISSION ANALYSIS

Name of company : **Gallantt Ispat 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

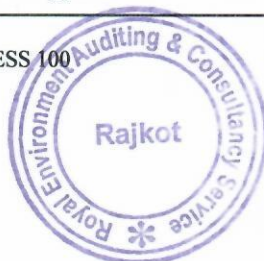
Sr. No.	Particulars	Unit	Stack - 5	Stack - 6	Stack - 7
1	Date of sampling	---	15/11/2022	15/11/2022	15/11/2022
2	Time of sampling	Hr	14:10	16:00	17:10
3	Stack Attached to	---	<b>Induction Furnace - 1 &amp; 2</b>	<b>Induction Furnace - 3 &amp; 4</b>	<b>Induction Furnace - 5 &amp; 6</b>
4	Air Pollution 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	122	120
8	Ambient Temperature	Degree Centi.	30	30	29
9	Average Velocity of Flue Gases	M/Sec.	6.8	7.6	7.4
10	Isokinetic flow rate for P.M. Sampli	LPM	21	20	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm <sup>3</sup>	50	50	50
13	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	22.4	27.8	24.2
14	Permissible Limit for SO <sub>2</sub>	ppm	100	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	35.8	30.5	33
16	Permissible Limit for NO <sub>x</sub>	ppm	50	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	20	20.8	19.6

\*Permissible limit as per GPCB CC&A

Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Done On. : 27/12/2021

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