



Royal

Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
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Ref. No. : 3101/08/2023-24

Date : 31/08/2023

REPORT OF STACK EMISSION ANALYSIS

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

Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	28/08/2023
02.	Time of sampling	Hr	09:15
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.	140
09.	Average Velocity of Flue Gases	M/Sec.	7.4
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	23
14.	Permissible Limit for SO ₂	mg/Nm ³	100
15.	Measured Concentration of SO ₂	mg/Nm ³	47
16.	Permissible Limit for NO _x	mg/Nm ³	100
17.	Measured Concentration of NO _x	mg/Nm ³	29
18.	Permissible Limit for Hg	mg/Nm ³	0.03
19.	Measured Concentration of Hg	mg/Nm ³	0.01

*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. : 26/12/2022




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Analyst



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Ref. No. : 3102/08/2023-24

Date : 31/08/2023

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 - 2	Stack - 3	Stack - 4
1	Date of sampling	---	28/08/2023	28/08/2023	28/08/2023
2	Time of sampling	Hr	10:00	11:00	12:00
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.	131	126	129
8	Ambient Temperature	Degree Centi.	31	30	31
9	Average Velocity of Flue Gases	M/Sec.	7.3	7.5	8.3
10	Isokinetic flow rate for P.M. Sampling	LPM	21	20	21
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	53	48	46
14	Permissible Limit for SO ₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	37.0	32.0	38.0
16	Permissible Limit for Nox	ppm	50	50	50
17	Measured Concentration of Nox	ppm	23.0	22.0	27.0

*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. : 26/12/2022

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Ref. No. : 3103/08/2023-24

Date : 31/08/2023

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 - 5	Stack - 6	Stack - 7
1	Date of sampling	---	28/08/2023	28/08/2023	28/08/2023
2	Time of sampling	Hr	13:30	14:30	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.	141	136	145
8	Ambient Temperature	Degree Centi.	30	30	29
9	Average Velocity of Flue Gases	M/Sec.	7.8	7.5	8.3
10	Isokinetic flow rate for P.M. Sampli	LPM	22	20	22
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm³	50	50	50
13	Measured Concentration of P.M.	mg/Nm ³	33	35	36
14	Permissible Limit for SO₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	43	48	42
16	Permissible Limit for NO_x	ppm	50	50	50
17	Measured Concentration of NO _x	27	29	29	26

*Permissible limit as per GPCB CC&A

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

Calibration Done On. : 26/12/2022

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Chavhan
Analyst