



TC-10779

**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 : royalsenvironment@live.com ■ admin@royalconsultancy.com**TEST REPORT
(STACK)**

Test Report No. : TR/2023-24/02/28

Date : 14/02/2024

Work Order No. : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 09:10

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : AFBC & CFBC Boiler of Power Plant

Air Pollution Control Device : ESP

Stack Dia : 3.6 Meter

Stack Height : 98 Meter

Lab ID: S/2023-24/02/06

Stack Temperature : 115 °C

Environmental Conditions

Ambient Temperature : 30 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.4 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	30	25	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	48	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	100	21.9	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory
Parth Godhani, QM/TMReviewed by:
Shweta Dhanani

*End of Report *

1. The results relate only to the item tested/Sampling.

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Doc. No. F/7.8/01, Issue No. 01, Issue Date : 01-01-22, Ammd No. 01, Ammd Date : 23-05-2022



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(STACK)**

Test Report No. : TR/2023-24/02/29

Date : 14/02/2024

Work Order No : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 10:00

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Rotary Kiln - 1 & 2

Air Pollution Control Device : ESP

Stack Dia : 1.6 Meter

Stack Height : 44 Meter

Lab ID: S/2023-24/02/07

Stack Temperature : 121 °C

Environmental Conditions

Ambient Temperature : 30 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.2 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	51	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	34	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	21.8	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory
Parth Godhani, QM/TMReviewed by:
Shweta Dhanani

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(STACK)**

Test Report No. : TR/2023-24/02/30

Date : 14/02/2024

Work Order No. : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 10:40

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Rotary Kiln - 3 & 4

Air Pollution Control Device : ESP

Stack Dia : 1.5 Meter

Stack Height : 34 Meter

Lab ID: S/2023-24/02/08

Stack Temperature : 120 °C

Environmental Conditions

Ambient Temperature : 30 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.4 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 20 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	43	IS:11255 (Part-1), 1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	31	IS:11255 (Part - 2), 1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	25.8	IS:11255 (Part - 7), 2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by:

Shweta Dhanani

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(STACK)**

Test Report No. : TR/2023-24/02/31

Date : 14/02/2024

Work Order No. : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 11:10

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Rotary Kiln - 5 (New) (350 TPD)

Air Pollution Control Device : ESP

Stack Dia : 1.5 Meter

Stack Height : 49 Meter

Lab ID: S/2023-24/02/09

Stack Temperature : 125 °C

Environmental Conditions

Ambient Temperature : 31 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.6 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	35	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	31	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	23.5	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by:

Shweta Dhanani

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(STACK)**

Test Report No. : TR/2023-24/02/32

Date : 14/02/2024

Work Order No. : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08//2024

Date & time of Sampling : 07/02/2024 at 11:45

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Induction Furnace - 1 & 2

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 47 Meter

Lab ID: S/2023-24/02/10

Stack Temperature : 120 °C

Environmental Conditions

Ambient Temperature : 31 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.4 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	35	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	53	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	24.2	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by:

Shweta Dhanani

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(STACK)**

Test Report No. : TR/2023-24/02/33

Date : 14/02/2024

Work Order No. : --

Job-Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 12:15

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Induction Furnace - 3 & 4

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 46 Meter

Lab ID: S/2023-24/02/11

Stack Temperature : 121 °C

Environmental Conditions

Ambient Temperature : 30 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.1 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	36	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	42	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	26.4	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory
Parth Godhani, QM/TMReviewed by:
Shweta Dhanani

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(STACK)**

Test Report No : TR/2023-24/02/34

Date : 14/02/2024

Work Order No : --

Job Card No: GIL/23-24/06

Name & Address of Customer : Gallant Ispat Limited

Survey No. 175/1, Near Toll gate,

Village : Samkhiyali,

Taluka : Bhachau,

Kutch, Gujarat.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 08/02/2024

Date & time of Sampling : 07/02/2024 at 12:40

Type of Sampling : Isokinetic

Date of Testing : 08th to 12th Feb. 2024

Stack Attached to : Induction Furnace - 5 & 6

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 42 Meter

Lab ID: S/2023-24/02/12

Stack Temperature : 118 °C

Environmental Conditions

Ambient Temperature : 28 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.4 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 21 LPM

Barometric Pressure : 755 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	35	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	41	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	28.1	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on : 14/01/2024

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by:

Shweta Dhanani

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