



TC-10779

**Royal****Environment Auditing & Consultancy Service**Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Moia Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com**TEST REPORT
(STACK)**

Test Report No. : TR/2023-24/10/91

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 09:30

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : AFBC & CFBC Boiler of Power Plant

Air Pollution Control Device : ESP

Stack Dia : 3.4 Meter

Stack Height : 95 Meter

Stack Temperature : 146 °C

Environmental Conditions

Ambient Temperature : 29 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.2 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 22 LPM

Barometric Pressure : 757 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	30	S/PM/2023-24/10/17	25	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/17	54	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	100	S/NO ₂ /2023-24/10/17	36	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth

Authorized Signatory
Parth Godhani, QM/TM

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Reviewed by:
Shweta Dhanani

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

2. The report shall not be reproduced except in full without approval of the laboratory can provide assurance that parts of a report are not taken out of context.

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com**TEST REPORT
(STACK)**

Test Report No. : TR/2023-24/10/92

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 10:45

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : Rotary Kiln - 1 & 2

Air Pollution Control Device : ESP

Stack Dia : 1.5 Meter

Stack Height : 45 Meter

Stack Temperature : 135 °C

Ambient Temperature : 29 °C

Average Velocity of Flue Gases : 7.2 M/Sec

Isokinetic flow rate for PM Sampling : 25 LPM

Gaseous Sampling Flow Rate : 2.0 LPM

Environmental Conditions

Humidity : 42%

Weather : Clear

Barometric Pressure : 757 mmHg

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	S/PM/2023-24/10/18	59	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/18	45	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	S/NO ₂ /2023-24/10/18	36	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth.

Authorized Signatory

Parth Godhani, QM/TM

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Reviewed by:

Shweta Dhanani

* End of Report

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(STACK)**

Test Report No. : TR/2023-24/10/93

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 11:30

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : Rotary Kiln - 3 & 4

Air Pollution Control Device : ESP

Stack Dia : 1.5 Meter

Stack Height : 36 Meter

Stack Temperature : 129 °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 : 22 LPM

Barometric Pressure : 757 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	S/PM/2023-24/10/19	50	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/19	35	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	S/NO ₂ /2023-24/10/19	25	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth

Authorized Signatory

Parth Godhani, QM/TM

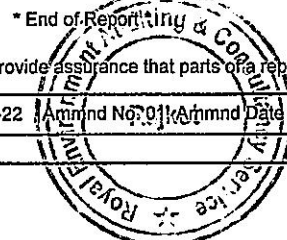
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(STACK)**

Test Report No. : TR/2023-24/10/94

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 14:15

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

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

Air Pollution Control Device : ESP

Stack Dia : 1.5 Meter

Stack Height : 49 Meter

Stack Temperature : 123 °C

Environmental Conditions

Ambient Temperature : 29 °C

Humidity : 42%

Average Velocity of Flue Gases : 8.2 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 23 LPM

Barometric Pressure : 757 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	100	S/PM/2023-24/10/20	48	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/20	42	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	S/NO ₂ /2023-24/10/20	26	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

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Parth Godhani, QM/TM

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(STACK)**

Test Report No. : TR/2023-24/10/95

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 14:40

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : Induction Furnace - 1 & 2

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 49 Meter

Stack Temperature : 144 °C

Environmental Conditions

Ambient Temperature : 30 °C

Humidity : 42%

Average Velocity of Flue Gases : 7.5 M/Sec

Weather : Clear

Isokinetic flow rate for PM Sampling : 22 LPM

Barometric Pressure : 757 mmHg

Gaseous Sampling Flow Rate : 2.0 LPM

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	S/PM/2023-24/10/21	32	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/21	44	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	S/NO ₂ /2023-24/10/21	34	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth
Authorized Signatory
Parth Godhani, QM/TM

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Shweta Dhanani

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(STACK)**

Test Report No. : TR/2023-24/10/96

Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 15:35

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : Induction Furnace - 3 & 4

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 49 Meter

Stack Temperature : 140 °C

Ambient Temperature : 30 °C

Average Velocity of Flue Gases : 7.8 M/Sec

Isokinetic flow rate for PM Sampling : 24 LPM

Gaseous Sampling Flow Rate : 2.0 LPM

Environmental Conditions

Humidity : 42%

Weather : Clear

Barometric Pressure : 757 mmHg

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	S/PM/2023-24/10/22	35	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/22	48	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	50	S/NO ₂ /2023-24/10/22	33	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth
Authorized Signatory
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Date : 31/10/2023

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 : 30/10/2023

Date & time of Sampling : 28/10/2023 at 16:30

Type of Sampling : Isokinetic

Date of Testing : 30th to 31st Oct. 2023

Stack Attached to : Induction Furnace - 5 & 6

Air Pollution Control Device : Bag Filter with Spark Trapper

Stack Dia : 1.5 Meter

Stack Height : 49 Meter

Stack Temperature : 143 °C

Ambient Temperature : 32 °C

Average Velocity of Flue Gases : 8.2 M/Sec

Isokinetic flow rate for PM Sampling : 23 LPM

Gaseous Sampling Flow Rate : 2.0 LPM

Environmental Conditions

Humidity : 42%

Weather : Clear

Barometric Pressure : 757 mmHg

Dominant Wind Direction (From) : NE

Sr. No.	Particulars	Unit	Permissible Limit	Lab Id	Results	Test Method
1	Particulate Matter (PM)	mg/Nm ³	50	S/PM/2023-24/10/23	36	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO ₂)	mg/Nm ³	100	S/SO ₂ /2023-24/10/23	50	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm ³	50	S/NO ₂ /2023-24/10/23	30	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Parth
Authorized Signatory
Parth Godhani, QM/TM

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