



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

#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/31

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 09:30

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

Stack Attached to

: AFBC & CFBC Boiler of Power Plant

Air Pollution Control Device

: ESP : 3.4

Stack Dia

Meter

Stack Height

: 95

Meter

Stack Temperature

: 116

'C

**Environmental Conditions** 

Ambient Temperature

: 31

Humidity: 42%

Average Velocity of Flue Gases

: 7.4

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 21

LPM

Barometric Pressure: 757 mmHg

Gaseous Sampling Flow Rate

: 2.0 LPM Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	30	S/PM/2023-24/11/06	21	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/06	58	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	100	S/NO <sub>2</sub> /2023-24/11/06	44	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by: Shweta Dhanani

\* End of Report \*

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.

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







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#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/32

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 10:45

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

Stack Attached to

: Rotary Kiln - 1 & 2

Air Pollution Control Device

: ESP : 1.5

Stack Dia

Meter

Stack Height

: 45

Meter

Stack Temperature

: 120

**Environmental Conditions** 

Ambient Temperature

'C 'C

Humidity: 42%

: 31

Average Velocity of Flue Gases

: 7.5

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 22

LPM **LPM**  Barometric Pressure: 757 mmHg

Gaseous Sampling Flow Rate

: 2.0

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	100	S/PM/2023-24/11/07	65	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm³	100	S/SO <sub>2</sub> /2023-24/11/07	40	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/07	32	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

**Authorized Signatory** 

Parth Godhani, QM/TM

Reviewed by: Shweta Dhanani

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#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/33

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 11:30

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

Stack Attached to

: Rotary Kiln - 3 & 4

Air Pollution Control Device

: ESP : 1.5

Stack Dia

Meter

Stack Height

: 36

Meter

Stack Temperature

Ambient Temperature

: 109

'C

'C

Humidity: 42%

Average Velocity of Flue Gases

: 7.7

: 32

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 21

LPM **LPM**  Barometric Pressure: 757 mmHg

**Environmental Conditions** 

Gaseous Sampling Flow Rate

: 2.0

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	100	S/PM/2023-24/11/08	55	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/08	44	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/08	32	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Authorized Signatory Parth Godhani, QM/TM

Reviewed by: Shweta Dhanani

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#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/34

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 14:15

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

Stack Attached to

: Rotary Kiln - 5 (New) (350 TPD)

Air Pollution Control Device

: ESP : 1.5

: 49

Stack Dia

Meter

Stack Height

Meter

Stack Temperature

: 113

'C

'C

Humidity: 42%

Average Velocity of Flue Gases

Ambient Temperature

: 30 : 7.9

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 21

LPM

Barometric Pressure: 757 mmHg

**Environmental Conditions** 

Gaseous Sampling Flow Rate

**LPM** : 2.0

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	100	S/PM/2023-24/11/09	56	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/09	40	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/09	31	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Authorized Signatory Parth Godhani, QM/TM

Reviewed by: Shweta Dhanani

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#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/35

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 14:40

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

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

'C

**Environmental Conditions** 

Stack Temperature Ambient Temperature : 121 : 32

'C

Humidity: 42%

: 7.3

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 21

LPM

LPM

Barometric Pressure: 757 mmHg

Gaseous Sampling Flow Rate

Average Velocity of Flue Gases

: 2.0

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	50	S/PM/2023-24/11/10	41	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/10	36	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/10	28.2	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Authorized Signatory

Parth Godhani, QM/TM

Reviewed by:

Shweta Dhanani

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#### **TEST REPORT** (STACK)

Test Report No.: TR/2023-24/11/36

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 15:35

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

Stack Attached to

: Induction Furnace - 3 & 4

Meter

Air Pollution Control Device

: Bag Filter with Spark Trapper

Stack Dia

: 1.5

Stack Height

: 49 Meter

Stack Temperature

: 110

'C

**Environmental Conditions** 

Ambient Temperature

'C

Humidity: 42%

: 32

M/Sec

Weather: Clear

Average Velocity of Flue Gases

: 7.2

Isokinetic flow rate for PM Sampling: 21

LPM **LPM**  Barometric Pressure: 757 mmHg

Gaseous Sampling Flow Rate

: 2.0

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	50	S/PM/2023-24/11/11	42	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/11	32	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/11	38	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

**Authorized Signatory** Parth Godhani, QM/TM

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Page 1 of 1

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Shweta Dhanani





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### TEST REPORT (STACK)

Test Report No.: TR/2023-24/11/37

Work Order No : --

Date: 18/11/2023

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

: 09/11/2023

Date & time of Sampling: 08/11/2023 at 16:30

Type of Sampling

: Isokinetic

Date of Testing: 10/11/2023

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

: 113 'C

Ambient Temperature

: 32

'C

Humidity: 42%

Average Velocity of Flue Gases

: 7.6

M/Sec

Weather: Clear

Isokinetic flow rate for PM Sampling: 21

LPM

Barometric Pressure: 757 mmHg

**Environmental Conditions** 

Gaseous Sampling Flow Rate

: 2.0

LPM

Dominant Wind Direction (From): NE

Sr. No.	Particulars	Unit	Permisible Limit	Lab ld	Results	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	50	S/PM/2023-24/11/12	45	IS:11255 (Part-1),1985
2	Oxides of Sulphur (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	100	S/SO <sub>2</sub> /2023-24/11/12	40	IS:11255 (Part - 2),1985
3	Oxides of Nitrogen (NOx)	mg/Nm <sup>3</sup>	50	S/NO <sub>2</sub> /2023-24/11/12	36	IS:11255 (Part - 7),2005

Instruments used: Ecotech Stack Sampler - ESS 100

Calibration done on :26/12/2022

Authorized Signatory

Parth Godhani, QM/TM

Rajkot S

Reviewed by: Shweta Dhanani

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