



## TEST REPORT

Unique Lab Report No. (ULR No.)	TC99482400000990F		
Name of Customer	M/s Gajanan Ferro Pvt. Ltd.	JSPCB Application No.	20094605 (Date- 23.08.2024)
Address	Kadambada, Dhalbhumgadh District- East Singhbhum, Jharkhand	Particular of the Plant	Ferro Alloys Plant
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	24.08.2024 to 25.08.2024	Sample Collected By	Ranjeet Yadav & Team
Sample Receiving Date	26.08.2024	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/223/AA-296/01-03	Plant Status	Operational
Period of Analysis	26.08.2024 to 27.08.2024	Report Release Date	29.08.2024
Meteorological Information	Average Ambient Temperature : 28.5°C, Barometric Pressure :752 mmHg, Relative Humidity : 72% Weather Condition – Cloudy		

### A. GENERAL INFORMATION

**Location of Sampling:** Location-1: Near Main Gate (Coordinates- 22°29'26.57"N to 86°34'9.44"E)  
Location-2: Near Office (Coordinates- 22°29'26.12"N to 86°34'7.87"E)  
Location-3: Near Labour Room (Coordinates- 22°29'21.28"N to 86°33'57.93"E)

**Duration of Sampling:** 24 hours

### B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 (Part 24)	46.81	48.65	51.26	60 (µg/m <sup>3</sup> )
2.	Particulate Matter as PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (Part 23)	72.25	76.83	80.55	100 (µg/m <sup>3</sup> )
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)	23.53	24.26	25.49	80 (µg/m <sup>3</sup> )
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6)	29.42	30.49	32.36	80 (µg/m <sup>3</sup> )

\*\*\* END OF REPORT \*\*\*

**Remarks:** The ambient air quality with respect to Particulate matters, SO<sub>2</sub> and NO<sub>2</sub> are within the prescribed National Ambient Air Quality Standard.

- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory

*Piyush Ranjan*  
29/8/2024  
Quality Manager  
(Piyush Ranjan)

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)  
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com







## TEST REPORT

Unique Lab Report No. (ULR No.)	TC99482400000991F		
Name of Customer	M/s Gajanan Ferro Pvt. Ltd.	JSPCB Application No.	20094605 (Date- 23.08.2024)
Address	Kadambada, Dhalbhumgadh District- East Singhbhum, Jharkhand	Particular of the Plant	Ferro Alloys Plant
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	24.08.2024 to 25.08.2024	Sample Collected By	Ranjeet Yadav & Team
Sample Receiving Date	26.08.2024	Time of Duration	24 Hours
Sample ID	SCECPL/TR/24/223/NR-185/01-03	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Noise	Plant Status	Operational
Sampling Method	IS:9989-1981 (Reaffirmed-2020)	Report Release Date	29.08.2024
Meteorological Information	Average Ambient Temperature : 28.5°C, Barometric Pressure : 752 mmHg Relative Humidity : 72% Weather Condition – Cloudy		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF  
ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT  
OF INDIA)

### PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

\*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

\* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

### AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)				
	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L <sub>eq</sub> Mean	Maximum
1. Near Entrance (Coordinates- 22°29'26.57"N to 86°34'9.44"E)	53.2	71.6	59.0	70.9	76.6
2. At the Roof of Hospital (Coordinates- 22°29'26.12"N to 86°34'7.87"E)	52.5	73.1	60.2	72.4	78.3
3. Back Side of the Hospital (Coordinates- 22°29'21.28"N to 86°33'57.93"E)	55.9	74.3	61.7	73.6	79.3

\*\*\* END OF REPORT \*\*\*

**Remarks-** Noise level is well within the standard specified limit for Silence Zone.

- dB(A) L<sub>d</sub> & L<sub>n</sub> denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L<sub>eq</sub> denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory  
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**MSME**  
सूक्ष्म, लघु एवं मध्यम उद्यम  
MICRO, SMALL & MEDIUM ENTERPRISES





## TEST REPORT

Unique Lab Report No. (ULR No.)	TC994824000000992F		
Name of Customer	M/s Gajanan Ferro Pvt. Ltd.	JSPCB Application No.	20094605 (Date- 23.08.2024)
Address	Kadambada, Dhalbhumgad District- East Singhbhum, Jharkhand	Type of Industry	Ferro Alloys Plant
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Method	IS: 11255 & CPCB Guideline (Lats/80/2013-14)	Sample Collected By	Ranjeet Yadav & Team
Date of Sampling	24.08.2024	Sample Condition	Sealed and Preserved
Sample Receiving date	26.08.2024	Sample Drawn By	Sabz Care Lab
Location	S.A.F. Stack (Kadambada, Dhalbhumgad)	Plant Status	Operational
Sample Details	Stack Emission	Period of Analysis	26.08.2024
Sample ID	SCECPL/TR/24/223/ST-70	Report Release Date	29.08.2024

### GENERAL INFORMATION ABOUT STACK

OBSERVED WHILE SAMPLING		REPORTED BY CUSTOMER	
Shape of Stack	Circular	Stack attached to	S.A.F. No. 1 & 2
Material of Construction	M.S.	Height of Stack from G.L (mtr)	27.89
Height of sampling port from G.L. (mtr)	12.04	Stack ID at Sampling point (mtr)	1.20
Ladder	Permanent	Working Load/Capacity	22 MT/day Each Furnace
Platform	Permanent		
Stack Gas Temperature (°C)	71 <sup>0</sup> C	Emission due to	Melting of Silico Manganese
Barometric Pressure (mm of Hg)	752	Type of Fuel Used	Electricity
Velocity of Gas Flow (m/s)	7.51	Fuel Consumption:	-----
Flue Gas Quantity (Nm <sup>3</sup> /Hr)	26240	Pollution Control Device	Bag Filter

### TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS	Limit
1.	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part 1)	48.73	100 (As Per JSPCB Ranchi)
2.	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS: 11255 (Part 2)	26.29	-
3.	Carbon Dioxide as CO <sub>2</sub>	% (v/v)	IS: 13270	2.20	-
4.	Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	IS 11255: Part 7	29.03	-

\*\*\* END OF REPORT \*\*\*

#### Remarks:

- All Reported values are observed well within the Limit.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

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Quality Manager  
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29/8/2024

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Name of the Customer	M/s Gajanan Ferro Pvt. Ltd.	JSPCB Application No.	20094605 (Date- 23.08.2024)
Address	Kadambedz, Dhalbhumgadh District- East Singhbhum, Jharkhand	Particular of the Plant	Ferro Alloys Plant
Discipline	Chemical	Sample Collected by	Ranjeet Yadav
Date of Sampling	25.08.2024	Group	Pollution & Environment
Date of Sample Receiving	26.08.2024	Sample Condition	Sealed & Preserved
Type of Sample	Water	Sampling Plan	SCECPL/SOP/WA/01
Sample Details	Waste Water (Plant Outlet)	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/223/WT-212	Location	Plan Outlet of the Unit (Kadambeda, East Singhbhum)
Period of Analysis	26.08.2024 to 29.08.2024	Plant Status	Operational
Sampling Method	IS 17614 (Part 1): 2021	Report Release Date	29.08.2024
Meteorological information	Ambient Temperature : 30.5°C, Barometric Pressure : 752 mmHg, Relative Humidity : 68% Weather Condition – Cloudy		

## TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Results	Requirement/Specifications as per CPCB Guideline for Inland Surface Discharge (EPR 1986)
1	pH@25°C	---	APHA 4500H+B: 24 <sup>th</sup> Ed. 2023	7.42	5.5 – 9.0
2	Temperature	°C	APHA 2550B: 24 <sup>th</sup> Ed. 2023	28.6	Not specified
3	Total Dissolved Solids @ 180°C	mg/L	APHA 2540C: 24 <sup>th</sup> Ed. 2023	383.0	2100.0
4	Total Suspended Solid @ 105°C	mg/L	APHA 2540-D: 24 <sup>th</sup> Ed. 2023	12.2	100.0
5	Chemical Oxygen Demand	mg/L	APHA 5220 B: 24 <sup>th</sup> Ed. 2023	88.7	250.0
6	Biological Oxygen Demand (3 Days @ 27°C)	mg/L	IS 3025 Part-44:1993 RA 2019	24.0	30
7	Oil & Grease	mg/L	APHA 5520-B: 24 <sup>th</sup> Ed. 2023	3.70	10

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