

ENVIRONMENTAL MONITORING REPORT



Danapur Village, Hosapete Taluk, Vijayanagara District, PIN-583222, Karnataka.

JANUARY-2025

Prepared by







GLOBAL ENVIRONMENT & MINING SERVICES

NABL & MOEFCC Recognized Laboratory

(Consulting Engineers, Mine Designers, Geologists & Surveyors) 3rd main road, Basaveswara badavane

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com Website : www.globalmining.in **PREFACE**

The industries should monitor environmental parameters as per the frequency and

locations given in the CFE/CFO. And the same should be submitted on every month to the

respective pollution control board.

As part of the conditions and inherent concern on health of the employees and

surroundings M/s. BMM Ispat Ltd., as appointed M/s. Global Environment & Mining

Services, Hosapete, to carry out the environmental pollution monitoring on AAQ

Monitoring, Fugitive monitoring, Noise Monitoring, Water Analysis & Stack monitoring

pollution and submit the same to the Pollution Control Board.

Accordingly, M/s. Global Environment & Mining Services, Hosapete, carried out the

pollution monitoring as per the standard sampling methods prescribed by CPCB, for AAQ

Monitoring, Fugitive monitoring within the plant, Stack Monitoring & Personal Dust

Sampling as per the CFO. These monitoring has been carried out in a frequency as

mentioned in the CFO and the same report is being submitted to the Board.

We sincerely thank to officials of M/s. BMM Ispat Ltd., for their valuable co-ordination &

support during the sampling and reporting.

for GLOBAL Environment & Mining Services

Place: Hosapete Date: 03.02.2025

K. Ramakrishna Reddy HOSPE (Technical Manager)





(Consulting Engineers, Mine designers, Geologist & Surveyors) 3rd Main Road, Basaveswara Badavane,

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ANNEXURE-01 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Customer Reference Sample collected by

Discipline

Group

Sample Type

Particulars of Sample Collected

Month Location

Duration of Monitoring Report Issued Date

Report Number

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18 - 450000125

Global Environment & Mining Services

Chemical

Atmospheric Pollution

Ambient Air Quality Monitoring

Respirable Dust Sampler, FPS Sampler

JANUARY-2025

A1-Danapur Village

24 Hour

03.02.2025

ULR-TC532324000004180F

RESULTS

				ILLO	ULIS					
	Parameters		PM: [μg/r	1000000	PM [μg/	7,27,50	SC [μg/		N([μg/	0 ₂ /m³]
	Reference Method		IS:5182: 2006 (Part-23) (RF-2017)		USEPA Gravin Met	netric	IS:5182: 2001 (Part-2) (RF-2017)		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.01.2025	02.01.2025	6840	80.10		24.99		11.15		14.31	
02.01.2025	03.01.2025	6864	69.36		21.59		9.36		15.50	
06.01.2025	07.01.2025	6998	77.05		29.19		14.69		16.12	
07.01.2025	08.01.2025	7048	66.78		22.09		11.15	l	14.34	
15.01.2025	16.01.2025	7255	74.39	100	26.62	60	10.13	80	13.11	80
16.01.2025	17.01.2025	7292	72.31		27.47		14.27		15.37	
20.01.2025	21.01.2025	7390	62.16		17.53		11.69		16.39	
21.01.2025	22.01.2025	7418	75.72		25.91		15.53		16.01	
	Average		72.23		24.42		12.25		15.14	

SL NO	INSTRUMENT DETAILS							
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)					
2	Make & Model	Enviro instruments / El-142 NL	Enviro instruments / EI-133					
3	Serial No	R.D.S. / 197-C-21	PM2.5/PM10 Sampler / 158-K-20					
4	Calibration Date	08.07.2024	28.03.2024					
5	Calibration Due Date	07.07.2025	27.03.2025					

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

 This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.

 Recognised by Ministry of Environment, Forest and Climate Change for Laboratory Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey





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> ANNEXURE-01 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

: WO/ADMIN/FY24/R018

Sample collected by

: Global Environment & Mining Services

Discipline

: Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

CO Analyzer

Month Location JANUARY-2025 A1-Danapur Village

Duration of Monitoring

: 1 Hour

Report Issued Date

: 03.02.2025

Report Number

: GEMS/BMM/NAAQ/2024-25/4180

RESULTS

SI. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	01.01.2025	6840	0.15	
2	02.01.2025	6864	0.11	
3	06.01.2025	6998	0.12	
4	07.01.2025	7048	0.15	4.0
5	15.01.2025	7255	0.16	4.0
6	16.01.2025	7292	0.12	
7	20.01.2025	7390	0.17	
8	21.01.2025	7418	0.13	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)
ND - Not Detected

SL NO	INS	TRUMENT DETAILS
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CC
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

INFERENCE
As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit

Analyzed By Priyanka B M Chemist



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TC-5323

ANNEXURE-02 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

WO/ADMIN/FY24/RO18 - 450000125 Global Environment & Mining Services

Sample collected by Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring Respirable Dust Sampler, FPS Sampler

Particulars of Sample Collected Month

Location

JANUARY-2025 A2-Mariyammanahalli Village

Duration of Monitoring

24 Hour

Report Issued Date

03.02.2025

Report Number

ULR-TC532324000004179F

RESULTS

	Parameters Reference Method		PM: [μg/r IS:5182: (Part- (RF-20	n ³] 2006 23)			SC [µg/ IS:5182 (Par (RF-2	m³] 2: 2001 t-2)	NC [µg/ IS:5: (Part-6 (RF-2	m³] 182:) 2006
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.01.2025	02.01.2025	6839	74.12		24.23		15.26		15.71	
02.01.2025	03.01.2025	6863	72.30		28.46		14.16		14.58	
06.01.2025	07.01.2025	6997	62.90		23.57	1	10.11		10.39	
07.01.2025	08.01.2025	7047	65.14	1	27.84		11.73		11.47	
16.01.2025	17.01.2025	7291	67.23	100	22.93	60	14.98	80	15.14	80
20.01.2025	21.01.2025	7389	49.92		25.40		12.64		13.69	
21.01.2025	22.01.2025	7417	87.02	1	28.16		15.66		16.34	
22.01.2025	23.01.2025	7438	75.44	1	24.37		16.26		16.83	
	Average		69.26		25.62		13.85		14.27	

SL NO	INSTRUMENT DETAILS						
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)				
2	Make & Model	Greentech instruments / GTI -151-N	Enviro instruments / EI-133				
3	Serial No	466-DTE-2023	PM2.5 /PM10 Sampler / 159-K-20				
4	Calibration Date	08.07.2024	28.03.2024				
5	Calibration Due Date	07.07.2025	27.03.2025				

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy



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> ANNEXURE-02 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

: WO/ADMIN/FY24/R018

Sample collected by

: Global Environment & Mining Services

Discipline

: Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected Month

CO Analyser

Location

: JANUARY-2025: A2-Mariyammanahalli Village

Duration of Monitoring

: 1 Hour

Report Issued Date

: 03.02.2025

Report Number

GEMS/BMM/NAAQ/2024-25/4179

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	01.01.2025	6839	0.15	
2	02.01.2025	6863	0.13	
3	06.01.2025	6997	0.17	
4	07.01.2025	7047	0.12	4.0
5	16.01.2025	7291	0.16	4.0
6	20.01.2025	7389	0.15	
7	21.01.2025	7417	< 0.01	
8	22.01.2025	7438	< 0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO		INSTRUMENT DETAILS		
1	Instrument Name	CO Gas Detector		
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CC		
3	Serial No	180883821		
4	Calibration Date	08.07.2024		
5	Calibration Due Date	07.07.2025		

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

Recognised by Ministry of Environment, Forest and Climate Change for Laboratory





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ANNEXURE-03 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Customer Reference Sample collected by

Discipline

Group Sample Type

Particulars of Sample Collected

Month

Location **Duration of Monitoring**

Report Issued Date

Report Number

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18 - 450000125

Global Environment & Mining Services

Chemical

Atmospheric Pollution

Ambient Air Quality Monitoring

Respirable Dust Sampler, FPS Sampler

JANUARY-2025

A3-Hanumanahalli Village

24 Hour

03.02.2025

ULR-TC532324000004210F

RESULTS

	Parameters Reference Method		[μg/m ³] [μg/m ³] [IS:5182: 2006 IISFPA 2001		m ³]	SO ₂ [μg/m³] IS:5182: 2001 (Part-2) (RF-2017)		NO ₂ [μg/m³] IS :5182: (Part-6) 2006 (RF-2017)		
			eference (Part-23)		Gravimetric Method					
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
03.01.2025	04.01.2025	6885	73.35		26.98		11.45		14.06	
04.01.2025	05.01.2025	6930	55.31		22.30		8.36		12.26	
06.01.2025	07.01.2025	7001	77.45		28.44		9.27		11.28	
07.01.2025	08.01.2025	7051	64.27		20.24		11.17		13.13	
15.01.2025	16.01.2025	7258	65.11	100	29.84	60	1039	80	15.30	80
17.01.2025	18.01.2025	7334	60.37		23.29		12.75		14.62	
18.01.2025	19.01.2025	7350	67.78		18.69		10.36		12.11	
20.01.2025	21.01.2025	7393	63.27		26.73		14.40		15.67	
	Average		65.86		24.56		11.11		13.55	

SL NO	INSTRUMENT DETAILS						
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)				
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133				
3	Serial No	R.D.S. / 197-C-21	PM2.5 /PM10 Sampler / 160-K-20				
4	Calibration Date	08.07.2024	28.03.2024				
5	Calibration Due Date	07.07.2025	27.03.2025				

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

9019

Technical Manager

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> **ANNEXURE-03** GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

WO/ADMIN/FY24/R018

Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected Month

CO Analyzer

Location

JANUARY-2025 A3-Hanumanahalli Village

Duration of Monitoring

1 Hour

Report Issued Date

03.02.2025

Report Number

GEMS/BMM/NAAQ/2024-25/4210

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	03.01.2025	6885	0.16	
2	04.01.2025	6930	0.12	
3	06.01.2025	7001	0.11	
4	07.01.2025	7051	0.15	4.0
5	15.01.2025	7258	0.11	4.0
6	17.01.2025	7334	0.17	
7	18.01.2025	7350	0.13	
8	20.01.2025	7393	0.15	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS				
1	Instrument Name	CO Gas Detector			
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO			
3	Serial No	180883821			
4	Calibration Date	08.07.2024			
5	Calibration Due Date	07.07.2025			

INFERENCE

As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager

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TC-5323

ANNEXURE-04 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. WO/ADMIN/FY24/RO18 - 450000125

Customer Reference

Global Environment & Mining Services

Sample collected by Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler, FPS Sampler

Month

IANUARY-2025

Location

A4-Galemmanagudi Village

Duration of Monitoring Report Issue Date

24 Hour 03.02.2025

Report Number

ULR-TC532324000004181F

RESULTS

	Parameters		PM ₁₀ [μg/m³] IS:5182: 2006 (Part-23) (RF-2017)		m ³] [μg/m ³] :: 2006 -23) USEPA 2001 Gravimetric Method		SO ₂ [μg/m³] IS:5182: 2001 (Part-2) (RF-2017)		NO ₂ [μg/m³] IS:5182: (Part-6) 2006 (RF-2017)	
	Reference Method									
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.01.2025	02.01.2025	6841	68.11		27.34		13.50		13.03	
02.01.2025	03.01.2025	6865	52.37		19.51]	10.29		12.73	
06.01.2025	07.01.2025	6999	50.39		32.89		14.25		16.04	
07.01.2025	08.01.2025	7049	56.28		18.33		11.13	_	13.53	
15.01.2025	16.01.2025	7256	71.30	100	28.64	60	15.06	80	16.96	80
16.01.2025	17.01.2025	7293	62.49	1	23.75		12.15		14.41	
20.01.2025	21.01.2025	7391	66.00		20.92		13.37		16.26	
21.01.2025	22.01.2025	7419	66.42	1	21.79		14.28		17.82	
	Average		62.04	1	24.15		13.00		15.10	

SL NO		INSTRUMENT DETAILS	
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S./198-C-21	PM2.5 /PM10 Sampler / 158-K-20
4	Calibration Date	08.07.2024	28.03.2024
5	Calibration Due Date	07.07.2025	27.03.2025

INFERENCE

As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

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> ANNEXURE-04 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

: WO/ADMIN/FY24/R018

Sample collected by

: Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

CO Analyser

Month Location JANUARY-2025 A4-Galemmanagudi Village

Duration of Monitoring

: 1 Hour

Report Issued Date

: 03.02.2025

Report Number

: GEMS/BMM/NAAQ/2024-25/4181

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	01.01.2025	6841	0.17	
2	02.01.2025	6865	0.14	
3	06.01.2025	6999	0.18	1
4	07.01.2025	7049	0.11	4.0
5	15.01.2025	7256	0.13	4.0
6	16.01.2025	7293	0.17	
7	20.01.2025	7391	0.15	
8	21.01.2025	7419	0.13	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS				
1	Instrument Name	CO Gas Detector			
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-C0			
3	Serial No	180883821			
4	Calibration Date	08.07.2024			
5	Calibration Due Date	07.07.2025			

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit

Analysed By Priyanka B M Chemist Authorised Signatory K. Ramakrishna Reddy Technical Manager

Recognised by Ministry of Environment, Forest and Climate Change for Laboratory





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TC-5323

ANNEXURE-05 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference Sample collected by

WO/ADMIN/FY24/RO18 - 450000125 **Global Environment & Mining Services**

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler, FPS Sampler

Month

JANUARY-2025

Location

A5-G Nagalapura Village

Duration of Monitoring

24 Hour

Report Issue Date Report Number

03.02.2025 ULR-TC532324000004182F

RESULTS

Parameters Reference Method		PM1 [μg/n IS:5182: (Part-	2006 23)	PM: [µg/ USEPA Gravimetr	m3] 2001	SO2 [µg/r IS:5182: (Part (RF-20	n3] : 2001 :-2)	ΝΟ [μg/ IS:5: (Part-6 (RF-2	m3] 182:) 2006	
Date of Sampling	Date of Received Sample	Sample Code	(RF-20	STD	Result	STD	Result	STD	Result	STD
01.01.2025	02.01.2025	6842	61.45		16.70		13.00		15.00	
02.01.2025	03.01.2025	6866	52.76	1	18.19		11.09		13.30	
06.01.2025	07.01.2025	7000	55.16		29.51		10.17		13.08	
07.01.2025	08.01.2025	7050	54.46		21.56		11.18		14.15	
15.01.2025	16.01.2025	7257	52.16	100	24.16	60	13.53	80	15.05	80
16.01.2025	17.01.2025	7294	45.68		19.77		11.15]	12.37	
20.01.2025	21.01.2025	7392	51.20	10	18.00		15.11		16.40	
21.01.2025	22.01.2025	7420	61.18	1	19.04		14.28		15.82	
	Avorago	-	54.26		20.87		12.44	1	14.40	

SL NO		INSTRUMENT DETAILS	
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S. / 198-C-21	PM2.5 /PM10 Sampler / 159-K-20
4	Calibration Date	08.07.2024	28.03.2024
5	Calibration Due Date	07.07.2025	27.03.2025

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Redd Technical Manage

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-05 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

: WO/ADMIN/FY24/R018

Sample collected by

: Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected Month

CO Analyser

Location

JANUARY-2025 A5- G Nagalapura Village

Duration of Monitoring

: 1 Hour

Report Issued Date

: 03.02.2025

Report Number

GEMS/BMM/NAAQ/2024-25/4182

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	01.01.2025	6842	< 0.01	
2	02.01.2025	6866	0.14	
3	06.01.2025	7000	0.15	
4	07.01.2025	7050	0.16	4.0
5	15.01.2025	7257	0.13	4.0
6	16.01.2025	7294	< 0.01	
7	20.01.2025	7392	< 0.01	
8	21.01.2025	7420	< 0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INST	TRUMENT DETAILS
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-C0
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit

Analysed By Priyanka B M Chemist

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TC-5323

ANNEXURE-06 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. WO/ADMIN/FY24/RO18 - 450000125

Customer Reference Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler, FPS Sampler

Month

JANUARY-2025

Location

A6-Gunda Tanda Village 24 Hour

Duration of Monitoring Report Issue Date

03.02.2025

Report Number

ULR-TC532324000004183F

RESULTS

	Parameters		PM [μg/ι	77.	PM; [μg/ι		SO [μg/۱	_	NC [μg/	
	Reference Method		IS:5182: (Part- (RF-20	23)	USEPA Gravim Meth	etric	IS:5182 (Part (RF-20	-2)	IS :5: (Part-6 (RF-2	2006
Date of Sampling	Date of Received Sample	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.01.2025	01.01.2025	6843	50.50		25.61		11.22		12.14	
02.01.2025	03.01.2025	6867	52.14]	27.75		13.20		14.80	
08.01.2025	09.01.2025	7084	54.16]	24.23		15.40		16.24	
09.01.2025	10.01.2025	7118	48.16		17.42		12.15		13.21	
15.01.2025	16.01.2025	7259	60.29	100	19.32	60	14.68	80	16.98	80
16.01.2025	17.01.2025	7295	53.90		16.05		12.63		13.60	
17.01.2025	18.01.2025	7320	47.65]	15.62		11.17		12.24	
18.01.2025	19.01.2025	7342	43.18	1	23.87		12.15		13.35	
	Average		51.25		21.23		12.83		14.07	

SL NO		INSTRUMENT DETAILS	
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S./200-C-21	PM2.5 /PM10 Sampler / 160-K-20
4	Calibration Date	08.07.2024	28.03.2024
5	Calibration Due Date	07.07.2025	27.03.2025

INFERENCE

As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-06 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

: WO/ADMIN/FY24/R018

Sample collected by

: Global Environment & Mining Services

Discipline

: Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

CO Analyser

Month

JANUARY-2025

Location

A6-Gunda Tanda Village

Duration of Monitoring Report Issued Date : 1 Hour : **03.02.2025**

Report Number

GEMS/BMM/NAAQ/2024-25/4183

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m³]	Standard
1	01.01.2025	6843	< 0.01	
2	02.01.2025	6867	< 0.01	
3	08.01.2025	7084	< 0.01	
4	09.01.2025	7118	< 0.01	4.0
5	15.01.2025	7259	< 0.01	4.0
6	16.01.2025	7295	< 0.01	
7	17.01.2025	7320	< 0.01	
8	18.01.2025	7342	< 0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INS	TRUMENT DETAILS
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-C0
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit

Analysed By Priyanka B M Chemist

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> **ANNEXURE-07** GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY MONITORING DATA

Name of the Industry 1 BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by GLOBAL Environment & Mining Services, Hosapete Particulars of sample collected 4 HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)

5 Month JANUARY-2025(1st Fort Night)

Discipline 6 : Chemical

7 Group : Atmospheric Pollution

8 Method adopted IS 5182 (Part 4): 1999 RA 2014

9 Report Issued Date 03.02.2025

10 Report Number GEMS/BMM/FM/2024-25/4326

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (μg/m³)	Standard
I. Benef	iciation Plant-1					
1.	Main Canteen	6991	06.01.2025	07.01.2025	1624.88	2000
2.	Near Iron Ore Bottom Hopper	6989	06.01.2025	07.01.2025	541.46	2000
3.	Iron Ore Screen	6990	06.01.2025	07.01.2025	1215.42	2000
II. Pelle	t Plant-I					
4.	Near Pellet Plant	6992	06.01.2025	07.01.2025	1602.12	2000
5.	Annual Cooler Pellet Discharge bin	6832	01.01.2025	02.01.2025	1585.91	2000
6.	Pellet Stock Yard	7042	07.01.2025	0801.2025	1641.74	2000
III. Spor	nge Iron Division-1 (kiln 1 & 2)					
7.	Control Room SID-1	7076	08.01.2025	09.01.2025	1822.95	2000
8.	Near Product bin	7077	08.01.2025	09.01.2025	1505.37	2000
9.	Coal Feeding Area	7078	08.01.2025	09.01.2025	1834.14	2000
IV. Indu	ction Furnace & Rolling Mill - 1					
10.	IF Office	7038	07.01.2025	08.01.2025	1805.24	2000
11.	TMT Stock Yard	7039	07.01.2025	08.01.2025	1490.86	2000
12.	RML Gasifier	7040	07.01.2025	08.01.2025	582.39	2000
V. Powe	r Plant 25 MW-1					
13.	25 MW ESP	7079	08.01.2025	07.01.2025	1230.00	2000
14.	25 MW ACC	7043	07.01.2025	08.01.2025	1351.04	2000
VI. Site S	Services					
15.	PGP- coal handling system	7041	07.01.2025	08.01.2025	537.45	2000
16.	IF Slag Crusher	7038	07.01.2025	08.01.2025	855.23	2000
17.	Main Gate	7145	07.01.2025	08.01.2025	1396.90	2000
18.	Fly ash Dump	6924	04.01.2025	05.01.2025	597.99	2000

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI- 043	Enviro Instrumets/EI- 043	Enviro Instrumets/EI- 043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	03.06.2024
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	02.06.2025

Analysed By Priyanka B M Chemist



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> ANNEXURE-8A GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

1 Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference

WO/ADMIN/FY24/R018

3 Sample collected by

GLOBAL Environment & Mining Services

4 Particulars of sample collected

HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)

5 Month

JANUARY-2025 (2nd Fort Night)

6 Discipline

Chemical

7 Group

Atmospheric Pollution

8 Method adopted

IS 5182 (Part 4): 1999 RA 2014

9 Report Issued Date

03.02.2025

10 Report Number

GEMS/BMM/FM/2024-25/4366

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (μg/m³)	Standard
Blast Fu	rnace					
1.	RMHS	7108	09.01.2025	10.01.2025	395.98	2000
2.	Stock House	7109	09.01.2025	10.01.2025	534.23	2000
3.	Gas Network Area	7110	09.01.2025	10.01.2025	1009.72	2000
4.	Blower Area	7111	09.01.2025	10.01.2025	712.26	2000
5.	Gas Cleaning plant (GCP)	7112	09.01.2025	10.01.2025	439.11	2000
6.	Stove Area	7113	09.01.2025	10.01.2025	799.93	2000
7.	Control ROOM (CR)	7173	10.01.2025	11.01.2025	552.75	2000
8.	Pig Costing Machine (PCM)	7174	10.01.2025	11.01.2025	503.19	2000
9.	Slag Granulation Plant (SGP)	7175	10.01.2025	11.01.2025	1143.91	2000
10.	Cost House Area	7176	10.01.2025	11.01.2025	1646.74	2000
SMS Are	a					
1.	Stock House/Vibro Feeders	7177	10.01.2025	11.01.2025	986.79	2000
2,	Laddle Tapping	7249	15.01.2025	16,01,2025	997.86	2000
3.		7178	10.01.2025	11.01.2025	1256.71	2000
MBM						
1.	Near Re-Heating Furnace	7250	15.01.2025	16.01.2025	601.74	2000
мвм	Slag pouring Area Near Re-Heating Furnace	7250	15.01.2025	16.01.2025		

Note: SPM -Suspended Particulate matter (µg/m³), INFERENCE: The Measured Values are within the limits.

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	03.06.2024
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	02.06.2025

Analysed By Priyanka B M Chemist

Authorised Signatory (10) K. Ramakrishna Reddin Technical Managel

Recognised by Ministry of Environment, Forest and Climate Change for Laboratory





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> **ANNEXURE-08** GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY MONITORING DATA

1 Name of the Industry BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services, Hosapete**

4 Particulars of sample collected HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05) JANUARY-2025(2nd Fort Night)

5 Month

Chemical

6 Discipline Group 7

Atmospheric Pollution

8 Method adopted IS 5182 (Part 4)1999 RA 2014

9 Report Issued Date 03.02.2025

10 Report Number GEMS/BMM/FM/2024-25/4537

RESULTS

	A.5.0	TOORIO			
Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (ug/m³)	Standard
iciation Plant-1		1.0	1	(1-8/-)	
Main Canteen	7443	22.01.2025	23.01.2025	1822.53	2000
Near Iron Ore Bottom Hopper	7441	22.01.2025	23.01.2025	929.97	2000
Iron Ore Screen	7442	22.01.2025	23.01.2025	784.51	2000
t Plant-I					
Near Pellet Plant	7444	22.01.2025	23.01.2025	1337.69	2000
Annual Cooler Pellet Discharge bin	7445	22.01.2025	23.01.2025	1872.73	2000
Pellet Stock Yard	7469	23.01.2025	24.01.2025	1323.22	2000
nge Iron Division-1(kiln 1 & 2)					
Control Room SID-I	7501	24.01.2025	25.01.2025	1727.39	2000
Near Product bin	7503	24.01.2025	25.01.2025	1333.02	2000
Coal Feeding Area	7503	24.01.2025	25.01.2025	796.04	2000
	-				
IF Office	7470	23.01.2025	24.01.2025	1593.87	2000
TMT Stock Yard	7471	23.01.2025	24.01.2025	1721.03	2000
RML Gasifier	7472	23.01.2025	24.01.2025	1569.49	2000
r Plant 25 MW-1					
25 MW ESP	7504	24.01.2025	25.01.2025	1311.83	2000
25 MW ACC	7527	25.01.2025	26.01.2025	1449.84	2000
Services			-		
PGP- Coal handling system	7519	24.01.2025	25.01.2025	936.24	2000
	7505	24.01.2025	25.01.2025	1809.44	2000
Main Gate	7528	25.01.2025	26.01.2025	1334.35	2000
Fly ash Dump	7412	21.01.2025	22.01.2025	573.11	2000
	iciation Plant-1 Main Canteen Near Iron Ore Bottom Hopper Iron Ore Screen t Plant-I Near Pellet Plant Annual Cooler Pellet Discharge bin Pellet Stock Yard nge Iron Division-1(kiln 1 & 2) Control Room SID-I Near Product bin Coal Feeding Area ction Furnace & Rolling Mill IF Office TMT Stock Yard RML Gasifier r Plant 25 MW-1 25 MW ESP 25 MW ACC Services PGP- Coal handling system IF Slag Crusher Main Gate	Location / Plant Code	Location / Plant Code Date Of Monitoring	Location / Plant Sample Code Date Of Monitoring Sample Receipt	Location / Plant Code Date Of Monitoring Sample Receipt (µg/m³)

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI- 043	Enviro Instrumets/EI- 043	Enviro Instrumets/EI- 043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	03.06.2024
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	02.06.2025

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

Recognised by Ministry of Environment, Forest and Climate Change for Laboratory

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> ANNEXURE-09 GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference : WO/ADMIN/FY24/R018

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected : HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)

5 Month : JANUARY-2025(1STFort Night)

6 Discipline : Chemical

7 Group : Atmospheric Pollution

8 Method adopted : IS 5182 (Part 4): 1999 RA 2014

9 Report Issued Date : **03.02.2025**

10 Report Number : GEMS/BMM/FM/2024-25/4193

RESULTS

		RESULI	<u>3</u>			
Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (μg/m³)	Standard
I Donofi	L ciation Plant-II	Coue	Monitoring	Sample Receipt	(16/11)	
		6829	01.01.2025	02.01.2025	708.33	2000
1.	Ball Mill Area (Zero Meter)		01.01.2025 01.01.2025	02.01.2025	528.45	2000
2.	Near Cone Crusher	6831	01.01.2025	02.01.2025	408.02	2000
3.	Concentrate Thickner	6830	01.01.2025	02.01.2025	400.02	2000
II. Pellet		(022	01.01.2025	02.01.2025	591.02	2000
4.	PR-6	6833	01.01.2025	02.01.2025	839.92	2000
5.	Annual Cooler Pellet Discharge bin	6832		02.01.2025	1323.50	2000
6.	Additive Grinding Building	6834	01.01.2025	02.01.2025	1323.50	2000
	ge Iron Division -2 (Kiln 3 & 4)	(054	02.04.2025	03.01.2025	1473.32	2000
7.	Control room	6854	02.01.2025			2000
8.	Near Weigh bridge (dispatch)	6853	02.01.2025	03.01.2025	640.39	2000
9.	Pellet Storage bin	6854	02.01.2025	03.01.2025	1189.04	
10.	Transfer House area	6855	02.01.2025	03.01.2025	1620.16	2000
11.	Production Separation Bin-PSB	6856	02.01.2025	03.01.2025	1425.42	2000
	ge Iron Division -3 (Kiln 5 & 6)			1	101010	2000
12.	Near Control room	6858	02.01.2025	03.01.2025	1868.68	2000
13.	Near Coal Crusher	6876	03.01.2025	04.01.2025	1523.29	2000
14.	Near Product bin	6875	03.01.2025	04.01.2025	1390.49	2000
15.	Coal Dryer	6877	03.01.2025	04.01.2025	1681.23	2000
V. Wagoı	n Tipper/RMHS					
16.	Near Tipping point	6878	03.01.2025	04.01.2025	509.79	2000
17.	Monsoon Shed (CPU)	6879	03.01.2025	04.01.2025	307.61	2000
18.	MCC Room (2nd Gate)	6880	03.01.2025	04.01.2025	1704.69	2000
VI. Powe	r Plant-70 MW					
19.	70MW-DM Plant (Near R.O. Plant)	6920	04.01.2025	05.01.2025	1139.45	2000
20.	2ndgateweigh bridge Near Coal Screen	6988	06.01.2025	07.01.2025	960.53	2000
21.	CFBC boiler	6925	04.01.2025	05.01.2025	709.78	2000
	OMW Power Plant					
22.	Near Boiler	6921	04.01.2025	05.01.2025	1057.49	2000
23.	Near Coal storage Shed	6922	04.01.2025	05.01.2025	1637.85	2000
24.	Dolochar Processing Area	6923	04.01.2025	05.01.2025	454.12	2000

Note: SPM -Suspended Particulate matter (µg/m³), INFERENCE: The Measured Values are within the limits.

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05	
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	
2	Make & Model	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Greentech/GTI-251	Greentech/GTI-251	
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024	
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	/ 03.06.2024	
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	02.06.2025	

Analysed By' Priyanka B M Chemist Authorised Signatory K. Ramakrishna Reddy Technical Manager ent & M

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> **ANNEXURE-10** GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry 2

Customer Reference WO/ADMIN/FY24/R018

GLOBAL Environment & Mining Services 3 Sample collected by

HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05) 4 Particulars of sample collected

JANUARY-2025(2ND Fort Night) 5 Month

Discipline Chemical 6

Atmospheric Pollution 7 Group

8 Method adopted IS 5182 (Part 4): 1999 RA 2014

9 Report Issued Date 03.02.2025

GEMS/BMM/FM/2024-25/4467 10 **Report Number**

RESULTS

		KESULI	<u> </u>			
Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (μg/m³)	Standard
I. Benefi	ciation Plant-II					
1.	Ball Mill Area (Zero Meter)	7281	16.01.2025	17.01.2025	1469.24	2000
2.	Near Cone Crusher	7283	16.01.2025	17.01.2025	621.14	2000
3.	3. Concentrate Thickner		16.01.2025	17.01.2025	727.93	2000
II. Pellet	Plant-I					
4.	PR-6	7285	16.01.2025	17.01.2025	1133.90	2000
5.	Annual Cooler Pellet Discharge bin	7286	16.01.2025	17.01.2025	1559.89	2000
6.	Additive Grinding Building	7325	17.01.2025	18.01.2025	1715.10	2000
III. Spon	ge Iron Division -2 (Kiln 3&4)					
7.	Control room	7320	17.01.2025	18.01.2025	1725.73	2000
8.	Near Weigh bridge (dispatch)	7326	17.01.2025	18.01.2025	1549.74	2000
9.	Pellet Storage bin	7329	17.01.2025	18.01.2025	1153.07	2000
10.	Transfer House area	7327	17.01.2025	18.01.2025	1255.09	2000
11.	Production Separation Bin-PSB	7328	17.01.2025	18.01.2025	1619.93	2000
IV. Spon	ge Iron Division -2 (Kiln 5&6)					
12.	Near Control room	7567	27.01.2025	28.01.2025	1449.28	2000
13.	Near Coal Crusher	7342	18.01.2025	19.01.2025	1531.90	2000
14.	Near Product bin	7343	18.01.2025	19.01.2025	1389.17	2000
15.	Coal Drier	7380	20.01.2025	21.01.2025	1479.74	2000
V. Wagon	Tipper/RMHS			-		
16.	Near Tipping point	7345	18.01.2025	19.01.2025	1030.65	2000
17.	Monsoon Shed (CPU)	7381	20.01.2025	21.01.2025	1604.19	2000
18.	MCC Room (2nd Gate)	7382	20.01.2025	21.01.2025	1806.72	2000
VI. Powe	r Plant-70 MW			-		
19.	70MW-DM Plant (Near R.O. Plant)	7383	20.01.2025	21.01.2025	1330.21	2000
20.	2ndgateweigh bridge Near Coal Screen	7408	2101.2025	22.01.2025	1133.34	2000
21.	CFBC boiler	7384	20.01.2025	21.01.2025	742.36	2000
VII. 2X70	DMW Power Plant					
22.	Near Boiler	7409	21.01.2025	22.01.2025	1170.19	2000
23.	Near Coal storage Shed	7410	21.01.2025	22.01.2025	1319.24	2000
24.	CPP Dolochar Process Area	7411	21.01.2025	22.01.2025	1546.16	2000

Note: SPM -Suspended Particulate matter (µg/m³), INFERENCE: The Measured Values are within the limits.

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI- 043	Enviro Instrumets/EI- 043	Enviro Instrumets/El- 043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	03.06.2024
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	02.06.2025

Analysed By Priyanka B M Chemist

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> ANNEXURE-10A GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference : WO/ADMIN/FY24/R018

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected : HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)

5 Month : JANUARY-2025(2nd Fort Night)

6 Discipline : Chemical

7 Group : Atmospheric Pollution

8 Method adopted : IS 5182 (Part 4): 1999 RA 2014

9 Report Issued Date : **03.02.2025**

10 Report Number : GEMS/BMM/FM/2024-25/4586

RESULTS

		KLJULI	<u>u</u>			
Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM (μg/m³)	Standard
Blast Fur	rnace					
1.	RMHS	7529	25.01.2025	26.01.2025	531.84	2000
2.	Stock House	7530	25.01.2025	26.01.2025	1490.49	2000
3.	Gas Network Area	7531	25.01.2025	26.01.2025	704.17	2000
4.	Blower Area	7564	27.01.2025	28.01.2025	370.52	2000
5.	Gas Cleaning plant (GCP)	7565	27.01.2025	28.01.2025	694.19	2000
6.	Stove Area	7566	27.01.2025	28.01.2025	854.57	2000
7.	Control ROOM (CR)	7567	27.01.2025	28.01.2025	1433.44	2000
8.	Pig Costing Machine (PCM)	7601	28.01.2025	29.01.2025	387.73	2000
9.	Slag Granulation Plant (SGP)	7602	28.01.2025	29.01.2025	610.55	2000
10.	Cost House Area	7568	27.01.2025	28.01.2025	862.48	2000
SMS Area	a					
1.	Stock House/Vibro Feeders	7603	28.01.2025	29.01.2025	1289.86	2000
2.	Laddle Tapping	7604	28.01.2025	29.01.2025	1603.67	2000
3.	Slag pouring Area	7605	28.01.2025	29.01.2025	1778.47	2000
MBM						
1.	Near Re-Heating Furnace	7620	29.01.2025	30.01.2025	521.06	2000

Note: SPM - Suspended Particulate matter ($\mu g/m^3$), INFERENCE: The Measured Values are within the limits.

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	461-DTF-2024
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	03.06.2024	03.06.2024
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	02.06.2025	92.06.2025

Analysed By Priyanka B M Chemist

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ANNEXURE-12 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

2 **Customer Reference**

3 Sample collected by

4 Particulars of sample collected

5 **Instrument Details**

Discipline 6

7 Group 8 Sample Type

9 Sampling Location

Month of Sampling 10

11 Date of Sample Received

Date of Sample Analysis 12

Date of Sample Analysis completion 13

Report Issued Date 14

15 Report Number

2

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18 - 450000125

GLOBAL Environment & Mining Services, Hosapete

Vayubodhak Stack sampler/ VBSS-2

Sl. No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

Pellet Plant-1 ESP

JANUARY-2025

02.01.2025&17.01.2025

03.01.2025&18.01.2025 04.01.2025&18.01.2025

03.02.2025 :

ULR-TC532324000004173F

Stack Details

Fuel Used 1

Stack Height (mtr)

3 Stack Diameter (mtr) Coal & furnace oil

100.0 4.4

Emission Details

Sl.	Parameters	Method	Unit	Res	ults	Permissible Limit
1101	Date of Monitoring			02.01.2025	17.01.2025	
	Sample Code			6828	7330	1100
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	26	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	56	62	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.12	6.06	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m³/hr	335287	331602	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm³/hr	303575	294861	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	31.0	32.51	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	182.0	191.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	80.0	82.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.010	0.011	NS

Note: NS- Not Specified, RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

Priyanka B M Chemist

K. Ramakrishna Reddy

Technical Manager

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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2

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ANNEXURE-13 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

WO/ADMIN/FY24/R018 - 450000125 **Customer Reference**

GLOBAL Environment & Mining Services, Hosapete 3 Sample collected by

Vayubodhak Stack sampler/ VBSS-2 Particulars of sample collected

Sl. No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 **Instrument Details** 5 Calibration Due Date: 27.03.2025

Chemical

6 Discipline Atmospheric Pollution 7 Group **Stack Monitoring** Sample Type : 8

2X100 TPD Sponge iron plant Kiln 1 & 2 Sampling Location : 9

JANUARY-2025 10 Month of Sampling

04.01.2025&27.01.2025 Date of Sample Received 11 05.01.2025&28.01.2025 Date of Sample Analysis 12 06.01.2025&29.01.2025

Date of Sample Analysis completion 13

03.02.2025 Report Issued Date 14

ULR-TC532324000004249F Report Number

Stack Details

Coal Fuel Used 1 60.0 Stack Height (mtr) 2 2.00 3 Stack Diameter (mtr)

Emission Details

				Res	sult	
Sl. No.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	Permissible Limit
NO.	Date of Monitoring			04.01.2025	27.01.2025	
	Sample Code			6929	7569	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	27	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	169	173	
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.66	6.81	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m³/hr	75366	77071	
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm³/hr	50570	51098	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	26.53	22.35	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	169.0	180.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³	32.0	43.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.102	0.090	1

Note: NS- Not Specified. RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-14 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

WO/ADMIN/FY24/R018 - 450000125 2 **Customer Reference**

GLOBAL Environment & Mining Services, Hosapete 3 Sample collected by

Vayubodhak Stack sampler/ VBSS-2 Particulars of sample collected

Sl. No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 5 Instrument Details Calibration Due Date: 27.03.2025

Chemical Discipline

Atmospheric Pollution 7 Group **Stack Monitoring** 8 Sample Type

JANUARY-2025(1st Fort Night) Month of Sampling 9

10 Date of Sample Received 15.01.2025 16.01.2025 Date of Sample Analysis : 11 Date of Sample Analysis completion 17.01.2025 12 03.02.2025 Report Issued Date 13

ULR-TC532324000004458F Report Number

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/N m ³
Indi	action Furnace 1 & 2										P
1	Induction Furnace 1	15.01.2025	7251	Electric	29	41	6.25	30	1.2	8.46	150
2	Induction Furnace 2	15.01.2025	7252	Power	29	43	6.34	30	1.3	11.26	150

SI. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Induction Furnance 1	25453	24186	50
2	Induction Furnance 2	30290	28314	50

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy **Technical Manager**



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-15 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District Name of the Industry

WO/ADMIN/FY24/RO18 - 450000125 **Customer Reference** 2

GLOBAL Environment & Mining Services, Hosapete Sample collected by 3

Vayubodhak Stack sampler/ VBSS-2 Particulars of sample collected 4

Sl. No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 **Instrument Details** 5

Calibration Due Date: 27.03.2025

Chemical Discipline

6 Atmospheric Pollution 7 Group **Stack Monitoring** Sample Type 8

Rolling mill reheating furnace **Sampling Location** 9

JANUARY-2025 Month of Sampling 10

08.01.2025&21.01.2025 Date of Sample Received 11 09.01.2025&22.01.2025 Date of Sample Analysis 12 10.01.2025&23.01.2025 Date of Sample Analysis completion: 13

03.02.2025 14 Report Issued Date

ULR-TC532324000004329F Report Number 15

Stack Details

Coal 1 **Fuel Used** Stack Height (mtr) 30.0 2 Stack Diameter (mtr) 8.0 3

Emission Details

			Result	sult		
Sl.	Parameters	Method	Unit	1st Fort Night	2 nd Fort Night	Permissible Limit
No.	Date of Monitoring		1 1	07.01.2025	21.01.2025	
	Sample Code			7046	7416	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	26	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	192	187	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.69	7.99	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m³/hr	31301	32516	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm³/hr	20543.1	20790.9	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	14.18	15.71	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm³	21.0	25.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	136.0	182.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.090	0.086	1

Note: NS- Not Specified. RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-16 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District

Customer Reference 2

WO/ADMIN/FY24/R018 - 450000125

3 Sample collected by

GLOBAL Environment & Mining Services, Hosapete

Particulars of sample collected

Vayubodhak Stack sampler/ VBSS-2 Sl. No: Stack Monitoring Kit/ 032308

5 **Instrument Details**

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025 Chemical

6 Discipline 7 Group

Atmospheric Pollution

Sample Type 8

Stack Monitoring

9 Sampling Location AFBC Boiler ESP (25 MW Power Plant)

10 Month of Sampling

JANUARY-2025

Date of Sample Received 11

Date of Sample Analysis 12 13 Date of Sample Analysis completion:

14 Report Issued Date 03.02.2025

Report Number 15

3

•

Stack Details

1 Fuel Used Coal

2 Stack Height (mtr)

Stack Diameter (mtr)

65.0 2.5

Emission Details

7				Res	sult	
Sl. No.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	Permissible Limit
NO.	Date of Monitoring			-	-	
	Sample Code			-	-	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC			-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C			-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec			-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m³/hr			-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm³/hr	Shutdown	Shutdown	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³			50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm³			NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³			NS
9	Carbon Monoxide	GEMS/SOP/69	%			NS

Note: NS- Not Specified. RA: Reaffirmed,

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ANNEXURE-17 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry

2 **Customer Reference**

3 Sample collected by

Particulars of sample collected 4

5 **Instrument Details**

6 Discipline

7 Group

8 Sample Type

9 Month of Sampling

Date of Sample Received 10

Date of Sample Analysis 11

Date of Sample Analysis completion 12 Report Issued Date 13

Report Number

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018 - 450000125

GLOBAL Environment & Mining Services, Hosapete

Vayubodhak Stack sampler/VBSS-2 Sl. No: Stack Monitoring Kit/032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

: Chemical

Atmospheric Pollution

Stack Monitoring

JANUARY-2025(1st Fort Night)

15.01.2025

16.01.2025

17.01.2025

03.02.2025

ULR-TC532324000004460F

SI. N o	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
-	nneys attached to Bag Filto	er (De dusting Uni	its)								
ben		15.01.2025	7253	-	28	34	5.13	30	0.4	16.38	50
1	Iron Ore dump hopper	15.01.2025									1555102
2	Iron Ore Screen bin	15.01.2025	7254	-	27	32	5.48	30	0.4	14.95	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Iron Ore dump hopper	2323	2259	-
2	Iron Ore Screen bin	2480	2389	121

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Priyanka B M Chemist

K. Ramakrishna Reddy

Technical Manager

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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2

5

6

Instrument Details

GLOBALENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors) 3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com Website : www.globalmining.in



ANNEXURE-18 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry

WO/ADMIN/FY24/R018 - 450000125 **Customer Reference**

GLOBAL Environment & Mining Services, Hosapete 3 Sample collected by

Vayubodhak Stack sampler/ VBSS-2 Particulars of sample collected Sl. No:Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Discipline Chemical

Atmospheric Pollution 7 Group

Stack Monitoring Sample Type 8 :

JANUARY-2025(1st Fort Night) Month of Sampling 9

10 Date of Sample Received 10.01.2025 : 15.01.2025 **Date of Sample Analysis** 11 : 12 Date of Sample Analysis completion : 15.01.2025 Report Issued Date 03.02.2025 13

ULR-TC532324000004428F Report Number 14

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Use d	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
-	nneys attached to Bag Filter (De dusting Units	s)								
RMF	łS										
3	Screen, Coal Crusher (CPU)	10.01.2025	7180	-	25	34	5.43	30	1.5	23.26	50
4	Main Crusher	10.01.2025	7182	-	25	32	5.10	25	0.5	11.84	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	34549	32957	-
4	Main Crusher	3606	3483	-

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Priyanka B M Chemist

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-19 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry

2 **Customer Reference**

3 Sample collected by

4 Particulars of sample collected

5 **Instrument Details**

6 Discipline

7 Group

Sample Type 8

9

Month of Sampling 10

Date of Sample Received Date of Sample Analysis 11

Date of Sample Analysis completion 12

Report Issued Date 13

14 Report Number BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018 - 450000125

GLOBAL Environment & Mining Services, Hosapete

Vayubodhak Stack sampler/VBSS-2

Sl. No:Stack Monitoring Kit/032308 Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

JANUARY-2025(1st Fort Night)

02.01.2025&03.01.2025 03.01.2025&04.01.2025

: 04.01.2025&05.01.2025

03.02.2025

ULR-TC532324000004194F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chir	nneys attached to Bag Filter (De dus	ting Units)									
Pell	et Plant -I										
5	AGB Main Bag Filter	02.01.2025	6859	-	27	33	4.92	6.5	0.50	24.54	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	02.01.2025	6860	-	28	35	5.54	3.0	0.30	27.61	50
7	Bentonite Powder bin top bag filter	02.01.2025	6861	-	27	33	5.30	3.0	0.30	20.62	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	11-1	7.0	0.50	-	50
9	P-1 Bag Filter	03.01.2025	6884	-	28	34	5.56	7.0	0.50	28.99	50

SI. No	Pellet Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
5	AGB Main Bag Filter	3478	3372	
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1410	1360	
7	Bentonite Powder bin top bag filter	1348	1304	2-
8	H-4 Conveyor discharge bag filter	-	-	•
9	P-1 Bag Filter	3932	3764	

Protocol
IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
IS-11255(Part 03) (RA 2014)
IS-11255(Part 03) (RA 2014)

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager

Cloba

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Website

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ANNEXURE-20 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

2 **Customer Reference**

Sample collected by 3

Particulars of sample collected

5 **Instrument Details**

Discipline 6

7 Group

8 Sample Type

9 Month of Sampling

Date of Sample Received 10

11 Date of Sample Analysis

12 Date of Sample Analysis completion

13 Report Issued Date

14 Report Number BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018 - 450000125

GLOBAL Environment & Mining Services, Hosapete

Vayubodhak Stack sampler/ VBSS-2

Sl. No:Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

JANUARY-2025(1st Fort Night)

10.01.2025&10.01.2025

15.01.2025&15.01.2025

15.01.2025&15.01.2025

03.02.2025

ULR-TC532324000004372F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chin	nneys attached to Bag Filto	er (De dusting Uni	its)								
2 X	100 TPD Sponge Iron Kiln	1 & 2									
10	Cooler-1 Discharge & Blending Chute	09.01.2025	7115		26	34	5.50	30	1.20	27.86	50
11	Cooler-2 Discharge	09.01.2025	7116		26	35	5.04	30	1.20	28.81	50
12	Intermediate Bin & Blending	09.01.2025	7117		27	34	5.74	30	1.20	25.77	50
13	Product House	10.01.2025	7180		28	36	5.83	30	1.20	30.94	50

SI. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	22379	21703	-
11	Cooler-2 Discharge	20509	19786	-
12	Intermediate Bin & Blending	23364	22446	-
13	Product House	23720	22911	-

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Analysed By Priyanka B M Chemist

K. Ramakrishna Reddy Technical Manager



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TC-5323

ANNEXURE-21 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry

Customer Reference 2

3 Sample collected by

Particulars of sample collected

5 **Instrument Details**

6 Discipline

7 Group

8 Sample Type

Month of Sampling 9

10 Date of Sample Received

Date of Sample Analysis 11

Date of Sample Analysis completion 12

Report Issued Date 13

Report Number 14

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018 - 450000125

GLOBAL Environment & Mining Services, Hosapete

Vayubodhak Stack sampler/ VBSS-2 Sl. No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring :

JANUARY-2025(2nd Fort Night) :

25.01.2025

26.01.2025 27.01.2025

03.02.2025

ULR-TC532324000004589F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Indu	iction Furnance 1 & 2										
1	Induction Furnance 1	25.01.2025	7532	Electric	27	41	6.06	30	1.2	7.35	50
2	Induction Furnance 2	25.01.2025	7533	Power	27	43	6.24	30	1.3	10.79	50

SI. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Induction Furnance 1	24664	23599	•
2	Induction Furnance 2	29836	28279	-

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)



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 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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: 08394 355369 Ph

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TC-5323

ANNEXURE-22 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara

2 **Customer Reference** WO/ADMIN/FY24/R018 - 450000125

3 Sample collected by **GLOBAL Environment & Mining Services, Hosapete**

Particulars of sample collected 4

Vayubodhak Stack sampler/ VBSS-2

Sl. No:Stack Monitoring Kit/ 032308 Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

6 Discipline 7 Group

5

Atmospheric Pollution

Sample Type 8

Stack Monitoring

Month of Sampling 9

JANUARY-2025(2nd Fort Night)

Date of Sample Received 10

Instrument Details

30.01.2025

Date of Sample Analysis 11

31.01.2025

Date of Sample Analysis completion 12

01.02.2025

Report Issued Date 13

03.02.2025

14 Report Number ULR-TC532324000004644F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
	nneys attached to Bag Filte	er (De dusting Un	its)								
Ben	eficiation Plant						1	I			=0
1	Iron Ore dump hopper	30.01.2025	7636		28	33	5.39	30	0.40	17.59	50
2	Iron Ore Screen bin	30.01.2025	7657		28	34	5.70	30	0.40	16.74	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Iron Ore dump hopper	2439	2360	-
2	Iron Ore Screen bin	2578	2484	-

Parameter	Protocol
Particulate Matter (mg/Nm³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Analysed By Priyanka B M Chemist

K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-23 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/R018 - 450000125

3 Sample collected by GLOBAL Environment & Mining Services, Hosapete

Particulars of sample collected

Vayubodhak Stack sampler/ VBSS-2 Sl. No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024

5 **Instrument Details**

Calibration Due Date: 27.03.2025

6 Discipline Chemical

7 Group 8 Sample Type Atmospheric Pollution

9

Stack Monitoring

Month of Sampling

JANUARY-2025(2nd Fort Night) 30.01.2025

10 Date of Sample Received

31.01.2025

11 Date of Sample Analysis 12 Date of Sample Analysis completion :

01.02.2025

Report Issued Date 13

03.02.2025

14 Report Number

ULR-TC532324000004646F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chir	nneys attached to Bag Filter (De dusting Units	i)								
RMI	IS										
3	Screen, Coal Crusher(CPU)	30.01.2025	7638	-	27	37	5.14	30	1.50	25.14	50
4	Main Crusher	30.01.2025	7639	-	28	33	5.00	25	0.50	14.60	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std	
3	Screen, Coal Crusher (CPU)	32709	31512	-	
4	Main Crusher	3535	3436	-	

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

10/9

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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ANNEXURE-24 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

WO/ADMIN/FY24/R018 - 450000125 2 **Customer Reference**

GLOBAL Environment & Mining Services, Hosapete Sample collected by 3

Vayubodhak Stack sampler/ VBSS-2 Particulars of sample collected 4

Sl. No:Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 5 **Instrument Details** Calibration Due Date: 27.03.2025

Chemical Discipline 6

Atmospheric Pollution 7 Group 8 Sample Type **Stack Monitoring**

JANUARY-2025 (2nd Fort Night) 9 Month of Sampling

Date of Sample Received 18.01.2025&18.01.2025 10 20.01.2025&20.01.2025 Date of Sample Analysis 11 20.01.2025&20.01.2025

Date of Sample Analysis completion 12

03.02.2025 Report Issued Date 13

14 Report Number ULR-TC532324000004484F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/N m³	KSPCB Std mg/Nm³
Chin	nneys attached to Bag Filter (De dus	sting Units)									
Pelle	et Plant-I										
5	AGB Main Bag Filter	17.01.2025	7331		29	33	5.12	6.5	0.50	19.93	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	17.01.2025	7332		30	34	5.65	3.0	0.30	25.37	50
7	Bentonite Powder bin top bag filter	17.01.2025	7333		31	35	5.79	3.0	0.30	19.03	50
8	H-4 Conveyor discharge bag filter	-	-		-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	18.01.2025	7349		29	37	5.37	7.0	0.50	32.35	50

SI. No	Pellet Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
5	AGB Main Bag Filter	3617	3518	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1439	1393	-
7	Bentonite Powder bin top bag filter	1473	1420	-
8	H-4 Conveyor discharge bag filter	-	-	ä
9	P-1 Bag Filter	3793	3640	-

Protocol	
IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
IS-11255(Part 03) (RA 2014)	/
IS-11255(Part 03) (RA 2014)	0/
	IS: 11255 (Part 1) - 1985 (reaffirmed 2014) IS-11255(Part 03) (RA 2014)

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- The result used release only to the tested samples a applicable parameters. Lindorsenian of products material meters to impact.

 Water Samples will be destroyed after 15 Jobays, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-25 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18 - 450000125

3 Sample collected by GLOBAL Environment & Mining Services, Hosapete

Particulars of sample collected

Vayubodhak Stack sampler/ VBSS-2

Sl. No:Stack Monitoring Kit/032308

5 **Instrument Details** Calibration Date: 28.03.2024 Calibration Due Date: 27.03.2025

Chemical

6 Discipline 7 Group

Atmospheric Pollution

8 Sample Type **Stack Monitoring**

9 Month of Sampling JANUARY-2025(2nd Fort Night)

10 Date of Sample Received 27.01.2025&28.01.2025

11 Date of Sample Analysis 28.01.2025&29.01.2025

12 Date of Sample Analysis completion 29.01.2025&30.01.2025

13 Report Issued Date 03.02.2025

Report Number 14

ULR-TC532324000004609F

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/N m³	KSPCB Std mg/Nm³
Chin	neys attached to Bag Filter	(De dusting Units)								
2 X 1	00 TPD Sponge Iron Kiln 1	& 2									
10	Cooler-1 Discharge & Blending Chute	27.01.2025	7570		27	34	5.28	30	1.20	25.84	50
11	Cooler-2 Discharge	27.01.2025	7571		28	35	5.21	30	1.20	28.20	50
12	Intermediate Bin & Blending	28.01.2025	7607		28	36	5.48	30	1.20	28.92	50
13	Product House	28.01.2025	7608		27	35	5.77	30	1.20	27.91	50

SI. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	21489	20798	-
11	Cooler-2 Discharge	21234	20408	-
12	Intermediate Bin & Blending	22313	21526	-
13	Product House	23482	22560	-

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

Analysed By Priyanka B M Chemist

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-26 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

Customer Reference 2

Sample collected by 3

Particulars of sample collected

Instrument Details 5

Discipline 6

7 Group

8 Sample Type

Sampling Location 9

Month of Sampling 10

11 **Date of Sample Received**

12

Date of Sample Analysis Date Sample Analysis Completion 13

14 Report Issued Date

15 Report Number BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18

GLOBAL Environment & Mining Services

Vayubodhan Stack sampler/ VBSS2

Sl.No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

:

Atmospheric Pollution

Stack Monitoring

: Pellet Plant-2 ESP

JANUARY-2025 :

01.01.2025 &16.01.2025

02.01.2025 &17.01.2025 :

03.01.2025&18.01.2025 : 03.02.2025

ULR-TC532324000004175F

Stack Details

Fuel Used 1

Stack Height (mtr) 2

3 Stack Diameter (mtr) Coal 100 4.4

Emission Details

				Res	sult	
Sl. No.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	Permissible Limit
NO.	Date of Monitoring			01.01.2025	16.01.2025	
	Sample Code			6835	7287	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	26	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	оС	62	61	•
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.06	6.36	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	331576	348391	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	294915	310717	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.12	35.67	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	129.0	148.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	41.0	53.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.016	0.019	1%

Note: NS- Not Specified. RA: Reaffirmed. INFERENCE: The Measured Values are within the limits.

Analysed By Priyanka B M Chemist

K. Ramakrishna Reddy Technical Manager



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ANNEXURE-27 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

WO/ADMIN/FY24/RO18 **Customer Reference** 2

GLOBAL Environment & Mining Services 3 Sample collected by Vayubodhan Stack sampler/ VBSS2 Particulars of sample collected 4

Sl.No: Stack Monitoring Kit/032308

Calibration Date: 28.03.2024 **Instrument Details** 5 Calibration Due Date: 27.03.2025

Chemical Discipline

6 Atmospheric Pollution 7 Group **Stack Monitoring** Sample Type 8

SID Axis 3&4 9 **Sampling Location JANUARY-2025** 10 Month of Sampling

03.012025&18.01.2025 Date of Sample Received 11 Date of Sample Analysis 04.01.2025&20.01.2025 12

05.01.2025&20.01.2025 **Date Sample Analysis Completion** 13

03.02.2025 Report Issued Date 14 ULR-TC532324000003655F Report Number 15

Stack Details

1 Fuel Used Coal 70.0 2 Stack Height (mtr) 3.00 Stack Diameter (mtr)

Emission Details

				Res	sult	
Sl.	Parameters	ameters Method		1 st Fort Night	2 nd Fort Night	Permissible Limit
No.	Date of Monitoring			03.01.2025	18.01.2025	
	Sample Code			6916	7573	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	126	129	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.04	6.95	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	179064	176867	.=
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	133632	131007	
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	33.36	31.83	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	171.0	202.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	94.0	96.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.163	0.091	1%

Note: NS- Not Specified. RA: Reaffirmed. INFERENCE: The Measured Values are within the limits.

Priyanka B M Chemist



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ANNEXURE-28 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry

2 **Customer Reference**

3 Sample collected by

Particulars of sample collected 4

5 **Instrument Details**

Discipline 6

Group 7

8 Sample Type

Sampling Location 9

Month of Sampling 10

Date of Sample Received 11

12 **Date of Sample Analysis**

13 **Date Sample Analysis Completion**

14 Report Issued Date

2

15 Report Number BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18

GLOBAL Environment & Mining Services

Vayubodhan Stack sampler/ VBSS2

Sl.No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

SID Axis 5&6

JANUARY-2025

06.01.2025&20.01.2025

07.01.2025&21.01.2025

08.01.2025&22.01.2025

03.02.2025

ULR-TC532324000004293F

Stack Details

Fuel Used 1

Stack Height (mtr)

Stack Diameter (mtr) 3

Coal

70.0 3.00

Emission Details

		10		Res	sult	Permissible Limit
Sl.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	
No.	Date of Monitoring	76		06.01.2005	20.01.2025	Ziiiii
	Sample Code			69932	7385	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	28	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	оС	129	134	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.97	7.23	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	177508	184017	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	131207	135364	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	29.08	32.94	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	271.0	209.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	0058	0044	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.021	0.026	1%

Note: NS- Not Specified. RA: Reaffirmed. INFERENCE: The Measured Values are within the limits.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



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TC-5323

ANNEXURE-29 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry

WO/ADMIN/FY24/RO18 **Customer Reference**

GLOBAL Environment & Mining Services Sample collected by

Vayubodhan Stack sampler / VBSS2 Particulars of sample collected Sl.No: Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 5 Instrument Details Calibration Due Date: 27.03.2025

Chemical Discipline 6

Atmospheric Pollution 7 Group **Stack Monitoring** 8 Sample Type

1X70 MW-CFBC Boiler ESP 9 Sampling Location

: **JANUARY-2025** 10 Month of Sampling

Date of Sample Received 09.01.2025 &23.01.2025 11 : 10.01.2025 &24.01.2025 Date of Sample Analysis 12 **Date Sample Analysis Completion** : 11.01.2025 &24.01.2025 13

03.02.2025 14 Report Issued Date

ULR-TC532324000004346F 15 Report Number

Stack Details

1	Fuel Used	Coal
2	Stack Height (mtr)	70.0
3	Stack Diameter (mtr)	3.00

				Result		
SI.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	Permissibl e
No.	Date of Monitoring			08.01.2025	22.01.2025	Limit
	Sample Code			7080	7446	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	122	125	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.48	6.44	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	164813	163962	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	122964	128852	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	34.41	28.07	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm³	37.0	40.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³	68.0	72.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.019	0.021	1%

Note: NS- Not Specified. RA: Reaffirmed. INFERENCE:

Priyanka B M Chemist

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TC-5323

ANNEXURE-30 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry

WO/ADMIN/FY24/R018 **Customer Reference**

2 **GLOBAL Environment & Mining Services** 3 Sample collected by

Vayubodhan Stack sampler / VBSS2 Particulars of sample collected 4 Sl.No:Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024 5 **Instrument Details** Calibration Due Date: 27.03.2025

Discipline Chemical

Atmospheric Pollution 7 Group **Stack Monitoring** 8 Sample Type

2X70 MW CFBC Boiler ESP 9 **Sampling Location**

JANUARY-2025 Month of Sampling 10

09.01.2025&25.01.2025 Date of Sample Received 11 10.01.2005&26.01.2025 **Date of Sample Analysis** 12 13 **Date Sample Analysis Completion** 11.01.2025&27.01.2025

14 Report Issued Date 03.02.2025

ULR-TC532324000004372F 15 Report Number

Stack Details

Fuel Used Coal 1 Stack Height (mtr) 110.0 2 3 Stack Diameter (mtr) 8.00

Emission Details

				Res	sult	
Sl.	Parameters	Method	Unit	1 st Fort Night	2 nd Fort Night	Permissible Limit
No.	Date of Monitoring	6		09.01.2025	25.01.2025	Zimit
	Sample Code			7114	7534	0-200
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	0C	26	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	0C	125	192	•
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.27	7.35	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	1315677	1330358	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	977606	995573	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	37.52	38.27	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm³	40.0	38.0	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³	105.0	152.0	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.029	0.025	NS

Note: NS- Not Specified. RA: Reaffirmed INFERENCE: The Measured Values are within the limits

Priyanka B M Chemist

K. Ramakrishna Reddy Technical Manager



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ANNEXURE-30A GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

2 **Customer Reference**

3 Sample collected by

Particulars of sample collected

5 **Instrument Details**

6 Discipline

7 Group 8 Sample Type

9 **Sampling Location**

10 Month of Sampling

11 Date of Sample Received

12 Date of Sample Analysis

13 **Date Sample Analysis Completion**

14 Report Issued Date

15 Report Number BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018

GLOBAL Environment & Mining Services

Vayubodhan Stack sampler/ VBSS2

Sl.No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

SMS :

JANUARY-2025 :

10.01.2025&25.01.2025

11.01.2025&27.01.2025

12.01.2025&27.01.2025 03.02.2025

ULR-TC532324000004425F

Stack Details

1 **Fuel Used**

Stack Height (mtr) 2

86

3 Stack Diameter (mtr) 2.4

Emission	De	tai	S

-				Res	ult	Permissible Limit	
SI.	Parameters	Method	Unit	1 ST Fort Night	2nd Fort Night		
	Date of Monitoring			10.01.2025 24.01.2025			
	Sample Code			7178			
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	26	27	-	
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC	69	82	-	
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.51	6.76	-	
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	122751	110087	-	
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	106846	94266	-	
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	24.64	22.51	50	

Note: NS- Not Specified. RA: Reaffirmed INFERENCE: The Measured Values are within the limits

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



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TC-5323

ANNEXURE-30B GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

2 **Customer Reference**

3 Sample collected by

Particulars of sample collected 4

5 **Instrument Details**

6 Discipline

7 Group

8 Sample Type

9 **Sampling Location**

Month of Sampling 10

Date of Sample Received 11

Date of Sample Analysis 12

13 **Date Sample Analysis Completion**

14 Report Issued Date

Report Number 15

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/R018

GLOBAL Environment & Mining Services

Vayubodhan Stack sampler/ VBSS2

Sl.No:Stack Monitoring Kit/ 032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

Barmill

JANUARY-2025

16.01.2025&29.01.2025

17.01.2025&30.01.2025

18.01.2025&31.01.2025

03.02.2025 ULR-TC532324000004454F

Stack Details

Fuel Used 1

Stack Height (mtr) 2

Stack Diameter (mtr) 3

87 3.0

Emission Details

SI. No.	Parameters	Method	Unit	1 ST Fort Night	2nd Fort Night	Permissible Limit
,,,,,	Date of Monitoring			15.01.2025	28.01.2025	
	Sample Code			7247	7606	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	оС	27	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	oC.	189	176	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	8.08	7.90	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	205731	201158	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	132561	133473	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	37.05	35.09	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	249.0	236.0	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³	88.0	75.0	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.901	0.831	NS

Note: NS- Not Specified. RA: Reaffirmed INFERENCE: The Measured Values are within the limits

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-30C GEMS-LD/TF/10/01

Analysis Report of Stack Emission

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry

1 WO/ADMIN/FY24/RO18 2 **Customer Reference**

GLOBAL Environment & Mining Services Sample collected by 3

Vayubodhan Stack sampler/ VBSS2 Particulars of sample collected 4 Sl.No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024 **Instrument Details** 5 Calibration Due Date: 27.03.2025

Discipline Chemical

6 Atmospheric Pollution 7 Group **Stack Monitoring**

8 Sample Type Blast Furnance -Stove Waste Gas Sampling Location 9

JANUARY-2025 Month of Sampling 10 11 Date of Sample Received 31.01.2025 01.02.2025 12 Date of Sample Analysis

Date Sample Analysis Completion : 01.02.2025 13 Report Issued Date 03.02.2025 14

ULR-TC532324000004661F Report Number 15

Stack Details

Fuel Used 1 80 Stack Height (mtr) 2 2.4 3 Stack Diameter (mtr)

Emission Details

Sl.	Parameters	Method	Unit	Result 2 nd Fort Night	Permissible Limit
Sl. No	Date of Monitoring			31.01.2025	100 HOOD 1.5 HOOD 1770
	Sample Code			7661	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	31	•
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	0C	150	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.94	•
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	113117	•
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	79648	•
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	20.54	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm³	80.0	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm³	26.0	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.390	1%

Note: NS- Not Specified. RA: Reaffirmed INFERENCE: The Measured Values are within the limits

Analysed By Priyanka B M Chemist

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 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-31 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

2 **Customer Reference** WO/ADMIN/FY24/RO18

: GLOBAL Environment & Mining Services 3 Sample collected by

Vayubodhan Stack sampler/ VBSS2 Particulars of sample collected

Sl.No:Stack Monitoring Kit/032308

Instrument Details Calibration Date: 28.03.2024 5

Calibration Due Date: 27.03.2025

Discipline Chemical 6

Atmospheric Pollution 7 Group **Stack Monitoring** 8 Sample Type :

JANUARY-2025 (1st Fort Night) 9 Month of Sampling

10 Date of Sample Received : 10.01.2025 Date of Sample Analysis 11 11.01.2025 12 **Date Sample Analysis Completion** : 12.01.2025 03.02.2025 Report Issued Date 13

ULR-TC532324000004426F 14 Report Number

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
	mneys attached to Bag Filter (D	e dusting Units)									
Ben	eficiation Plant-2										
1	Iron Ore Cone Crusher	NOT IN OPERATION	-			-	-	30	1.20	-	50
2	Iron Ore Screening	10.01.2025	7179	Coal	27	33	5.25	30	0.90	19.58	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	12014	11555	-

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits.

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 - The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neture interred nor impact.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-32 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference 2

WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services**

Particulars of sample collected

Vayubodhan Stack sampler/ VBSS2 Sl.No:Stack Monitoring Kit/ 032308

Instrument Details 5

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

6 Discipline Chemical

Group 7 Sample Type 8

Atmospheric Pollution

Stack Monitoring

9 Month of Sampling JANUARY-2025 (1st Fort Night)

Date of Sample Received 10

01.01.2025

Date of Sample Analysis 11

: 02.01.2025

Date Sample Analysis Completion 12

: 03.01.2025

13 Report Issued Date 04.11.2024

14 Report Number

ULR-TC532324000004176F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chin	nneys attached to Bag Filter (De du	sting Units)									
Pell	et Plant-II							,			
3	AGB main bag Filter	01.01.2025	6836		27	33	5.39	6.5	0.5	26.63	50
4	Lime & Bentonite Powder bin top bag filter	01.01.2025	6837		28	35	5.15	6	0.35	22.46	50
5	AGB De dusting Bag Filter	-7/	-		-	-	-	6	0.6	-	50
6	Powder Coal main bag filter				_	-	-	6	0.6	-	50
7	RP-6 Conveyor bag Filter	-	-		-	-	-	6	0.3	-	50
8	Pellet discharge bin bag filter	01.01.2025	6839		29	41	5.15	20	0.5	29.84	50

SI. No	Pellet Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
3	AGB main bag Filter	3808	3692	-
4	Lime & Bentonite Powder bin top bag filter	3638	3520	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	
8	Pellet discharge bin bag filter	3638	3520	-

Parameter	Protocol	
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	

INFERENCE: The measured values are within the limits

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager

3/0ps

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

The result listed refers only to the tested samples & applicable parameters. Entorsement on products is netted in impress. Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-33 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry
- WO/ADMIN/FY24/R018 **Customer Reference**
- **GLOBAL Environment & Mining Services** Sample collected by 3
- Vayubodhan Stack sampler/ VBSS2 Particulars of sample collected 4 Sl.No:Stack Monitoring Kit/ 032308
- Calibration Date: 28.03.2024 5 **Instrument Details** Calibration Due Date: 27.03.2025
 - Chemical Discipline Atmospheric Pollution
- 6 7 Group Sample Type 8
- **Stack Monitoring** Month of Sampling JANUARY-2025 (1st Fort Night)
- 03.01.2025,04.01.2025,06.01.2025&07.01.2025 Date of Sample Received 10 04.01.2025,05.01.2025,07.01.2025&08.01.2025 Date of Sample Analysis 11 05.01.2025,06.01.2005,08.01.2025&09.01.2025 **Date Sample Analysis Completion** 12
- 03.02.2025 13 Report Issued Date
- ULR-TC532324000004246F Report Number

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chim	neys attached to Bag Filter (De dust	ting Units)									
2 X 5	00 TPD Sponge Iron Kiln 1 & 2										
9	Cooler Discharge -1	03.01.2025	6882		27	35	5.82	30	1.20	29.28	50
10	Cooler Discharge -2	03.01.2025	6883		29	36	5.31	30	1.20	26.71	50
11	Coal stock house	04.01.2025	6926		30	34	4.90	30	1.20	13.98	50
12	PSB 1 System-1	04.01.2025	6927		27	36	5.33	30	1.20	30.03	50
13	PSB 1 System-2	04.01.2025	6928		28	37	5.63	30	1.20	31.90	50
14	PSB 2 System-1 MCC	06.01.2025	6994		29	38	5.37	30	1.20	31.32	50
15	PSB 1 System-2 Road	06.01.2025	6995		29	37	5.79	30	1.20	32.94	50
16	Junction House Old & New	06.01.2025	6996		26	35	5.43	30	1.20	28.23	50
17	Storage Bunker	07.01.2025	7045		27	34	5.01	30	1.20	21.95	50
18	Dispatch	-	-		-	-	-	30	1.2	-	50

SI. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
9	Cooler Discharge -1	23716	22926	-
10	Cooler Discharge -2	21614	52813	-
11	Coal stock house	19966	19487	-
12	PSB 1 System-1	21718	20960	-
13	PSB 1 System-2	22915	22032	-
14	PSB 2 System-1 MCC	21875	21071	
15	PSB 1 System-2 Road	23577	22586	-
16	Junction House Old & New	22111	21097	-
17	Storage Bunker	20030	19423	
18	Dispatch	-	-	-

Protocol	
IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
IS-11255(Part 03) (RA 2014)	
IS-11255(Part 03) (RA 2014)	0/
l	IS: 11255 (Part 1) - 1985 (reaffirmed 2014) IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits

Priyanka B M Chemist

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 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-34 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry

WO/ADMIN/FY24/RO18 2 **Customer Reference**

3 **GLOBAL Environment & Mining Services** Sample collected by Particulars of sample collected Vayubodhan Stack sampler/VBSS2 4 Sl.No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024 **Instrument Details** Calibration Due Date: 27.03.2025

Discipline Chemical 6

7 Group Atmospheric Pollution 8 **Stack Monitoring** Sample Type :

9 Month of Sampling JANUARY-2025(1st Fort Night)

Date of Sample Received 07.01.2025&08.01.2025 10 Date of Sample Analysis 08.01.2025&09.01.2025 11 Date Sample Analysis Completion : 09.01.2025&10.01.2025 12

Report Issued Date 03.02.2025 13

ULR-TC532324000004327F Report Number 14

RESULTS

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chim	neys attached to Bag Filter (De	dusting Units)					100000000000000000000000000000000000000				
2X50	0 TPD Sponge Iron Kiln 3&4										
19	DE 3, Axis 3 CD	07.01.2025	7044		30	36	5.39	30	1.20	40.15	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	07.01.2025	7147		28	35	5.82	30	1.20	34.34	50
21	DE 8 & 12 I-Bin, (Stand By)	08.01.2025	7084		28	36	5.27	30	1.20	30.52	50
22	DE 9 &10 PSB 1 & 2 Product Separation bin	08.01.2025	7085		26	35	5.21	30	1.20	32.65	50
23	Coal Dryer	08.01.2025	7083		27	38	6.63	30	1.20	37.65	50

SI. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
19	DE 3, Axis 3 CD	21948	21078	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	23698	22597	
21	DE 8 & 12 I-Bin, (Stand By)	53848	51843	-
22	DE 9 &10 PSB 1 & 2 Product Separation bin	53177	50883	-
23	Coal Dryer	27003	2659	-

INFERENCE: The Measured Values are within the limits.

Priyanka B M Chemist



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 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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ANNEXURE-35 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry 1

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference 2

WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services**

Particulars of sample collected

Vayubodhan Stack sampler/VBSS2 Sl.No:Stack Monitoring Kit/ 032308

5 **Instrument Details** Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Discipline 6

Chemical

Group 7

Atmospheric Pollution

Sample Type 8

Stack Monitoring

9 Month of Sampling JANUARY-2025 (2ndFort Night)

Date of Sample Received 10

25.01.2025

Date of Sample Analysis 11

26.01.2025

Date Sample Analysis Completion 12

: 27.01.2025

Report Issued Date 13

03.02.2025

Report Number 14

ULR-TC532324000004592F

RESULTS

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta ºC	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
	nneys attached to Bag Filte	er (De dusting Unit	s)								
Bene	eficiation Plant-2	T	Т	T	Г		T	T	10	I .	50
1	Iron Ore Cone Crusher	-	-		-	-	-	-			
2	Iron Ore Screening	25.01.2025	7535		27	34	5.04	30	0.90	24.02	50

SI. No	Beneficiation Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
1	Iron Ore Cone Crusher	Ore Cone Crusher -		×=
2	Iron Ore Screening	11565	11096	(=

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits.

Analysed By Priyanka B M Chemist



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 150ays, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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ANNEXURE-36 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1 Name of the Industry

Customer Reference 2

3 Sample collected by

Particulars of sample collected 4

5 **Instrument Details**

6 Discipline

7 Group

10

14

8 Sample Type

9

Month of Sampling

Date of Sample Received 11 Date of Sample Analysis

Date Sample Analysis Completion 12

Report Issued Date 13 Report Number

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

WO/ADMIN/FY24/RO18

GLOBAL Environment & Mining Services

Vayubodhan Stack sampler/ VBSS2

Sl.No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024

Calibration Due Date: 27.03.2025

Chemical

Atmospheric Pollution

Stack Monitoring

JANUARY-2025(2ndFort Night)

17.01.2025

18.01.2025

18.01.2025

03.02.2025

ULR-TC532324000004469F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sampl e Code	Fuel Used	Ta °C	TS °C	V m/Sec	Heigh t (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chin	Chimneys attached to Bag Filter (De dusting Units)										
Pelle	et Plant										
3	AGB main bag Filter	16.01.2025	7288		29	34	5.61	6.5	0.5	21.09	50
4	Lime & Bentonite Powder bin top bag filter	16.01.2025	7289		30	35	5.23	6	0.35	24.68	50
5	AGB De dusting Bag Filter	-	-		-	-	-	6	0.6	-	50
6	Powder Coal main bag filter	-	-		-	-	-	6	0.6	-	50
7	RP-6 Conveyor bag Filter	-	-		-	-	-	6	0.3	-	50
8	Pellet discharge bin bag filter	16.01.2025	7290		29	39	5.44	20	0.5	28.91	50

SI. No	Pellet Plant	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
3	AGB main bag Filter	3301	3177	
4	Lime & Bentonite Powder bin top bag filter	1587	1521	
5	AGB De dusting Bag Filter	\ -	· ·	
6	Powder Coal main Bagfilter	-		•
7	RP-6 Conveyor bag Filter	-	:=:	-
8	Pellet discharge bin Bagfilter	3848	3654	•

Parameter	Protocol	7/00/2017
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	

INFERENCE:-- The Measured Values are within the limits.

Priyanka B M Chemist

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ANNEXURE-37 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1
 - WO/ADMIN/FY24/RO18 **Customer Reference**
 - **GLOBAL Environment & Mining Services** Sample collected by
 - Vayubodhan Stack sampler/ VBSS2 Particulars of sample collected Sl.No:Stack Monitoring Kit/032308
- Calibration Date: 28.03.202421 5 **Instrument Details** Calibration Due Date: 27.03.2025
 - Chemical Discipline
- Atmospheric Pollution Group 7 8
 - Stack Monitoring Sample Type JANUARY-2025(2ndFort Night) Month of Sampling
- 18.01.2025,20.01.2025&21.01.2025&22.01.2025 10 Date of Sample Received 20.01.2025,21.01.2025&22.01.2025&23.01.2025 Date of Sample Analysis 11 21.01.2025,22.01.2025&23.01.2025&24.01.2025 **Date Sample Analysis Completion** 12
- Report Issued Date 03.02.2025 13
- ULR-TC532324000004491F Report Number 14

RESULTS

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm ³
Chim	neys attached to Bag Filter (De dustin	g Units)									
2 X 5	00 TPD Sponge Iron Kiln 1 & 2										
9	Cooler Discharge -1	18.01.2025	7347	Coal	29	34	5.82	30	1.2	29.37	50
10	Cooler Discharge -2	18.01.2025	7348	Coal	31	35	5.31	30	1.2	26.88	50
11	Coal stock house	20.01.2025	7386	Coal	29	34	5.17	30	1.2	12.10	50
12	PSB 1 System-1	20.01.2025	7387	Coal	30	36	5.60	30	1.2	35.48	50
13	PSB 1 System-2	20.01.2025	7388	Coal	29	35	5.80	30	1.2	31.72	50
14	PSB 2 System-1 MCC	21.01.2025	7413	Coal	30	37	5.12	30	1.2	35.26	50
15	PSB 1 System-2 Road	21.01.2025	7414	Coal	28	35	5.91	30	1.2	36.00	50
16	lunction House Old & New	21.01.2025	7415	Coal	29	37	5.63	30	1.2	30.47	50
17	Storage Bunker	22.01.2025	7045	Coal	26	34	5.22	30	1.2	25.32	50
18	Dispatch	-	-		-	-	-	30	1.2	-	50

SI. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m³/hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
9	Cooler Discharge -1	23716	22926	
10	Cooler Discharge -2	21614	20813	-
11	Coal stock house	21071	20432	(*)
12	PSB 1 System-1	22789	21914	-
13	PSB 1 System-2	23637	22642	
14	PSB 2 System-1 MCC	20400	19702	
15	PSB 1 System-2 Road	20115	19353	(W)
16	Junction House Old & New	18772	17971	•
17	Storage Bunker	18161	17490	-
18	Dispatch	-	=	-

Parameter	Protocol	
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	1-

INFERENCE: The Measured Values are within the limits.



Authorised Signator K. Ramakrishna Reddy

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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Technical Manager





2

GLOBALENVIRONMENT & MINING SERVICES

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ANNEXURE-38 **GEMS-LD/TF/10/01**

Analysis Report of Stack Emission

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry

WO/ADMIN/FY24/RO18 **Customer Reference**

GLOBAL Environment & Mining Services 3 Sample collected by Vayubodhan Stack sampler/ VBSS2

Particulars of sample collected Sl.No:Stack Monitoring Kit/032308

Calibration Date: 28.03.2024 **Instrument Details** 5 Calibration Due Date: 27.03.2025

Chemical 6 Discipline

Atmospheric Pollution 7 Group

Stack Monitoring Sample Type 8

JANUARY-2025 (2nd Fort Night) Month of Sampling 9

Date of Sample Received 22.01.2025&24.01.2025 10 23.01.2025&25.01.2025 Date of Sample Analysis 11 Date Sample Analysis Completion : 24.01.2025&26.01.2025 12

03.02.2025 Report Issued Date 13

ULR-TC532324000004540F 14 Report Number

RESULTS

				TTIO C							
SI. NO	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm³	KSPCB Std mg/Nm³
Chin	nneys attached to Bag Filter (D	e dusting Units)									
2X5	00 TPD Sponge Iron Kiln 3&4										
19	DE 3, Axis 3 CD	22.01.2025	7448		29	35	5.77	30	1.20	30.79	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	22.01.2025	7449		30	36	6.07	30	1.20	32.67	50
21	DE 8 & 12 I-Bin, (Stand By)	24.01.2025	7507		29	38	5.52	30	1.90	33.96	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	24.01.2025	7508		28	37	5.21	30	1.90	34.69	50
23	Coal Dryer	24.01.2025	7509		31	38	6.51	30	1.20	37.55	50

SI. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm³/hr	KSPCB Std
19	DE 3, Axis 3 CD	18.79	17390	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	19586	18771	
21	DE 8 & 12 I-Bin, (Stand By)	51041	49267	4
22	DE 9 &10 PSB 1 & 2 Product Separation bin	50225	48290	-
23	Coal Dryer	20808	19856	-

Parameter	Protocol	
Particulate Matter (mg/Nm3)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)	
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	

INFERENCE: The Measured Values are within the limits.

Priyanka B M Chemist

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-40 GEMS-LD/TF/08/01

NOISE LEVEL MONITORING REPORT

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry

WO/ADMIN/FY24/RO18 - 450000125 **Customer Reference Global Environment & Mining Services** Sample collected by

Chemical Discipline

Atmospheric Pollution Group Noise Level Monitoring Sample Type Lutron: SL-4023SD Particulars of Sample Collected

Sl. No: Q679952

Date of Calibration:16.12.2024 Instrument Details

Calibration Due Date:15.12.2025

JANUARY-2025 Month 03.02.2025 Report Issue Date

IS 9989-1981 Reaffirmed 2014 Method Adopted ULR-TC532324000003528F Report No

			Noise Lev	el dB (A)		
SI.	Location	Date of	Day'	Standard		
No		Monitoring	Min	Max	Stanuaru	
1	Main Gate	01.01.2025	49.8	58.6	75	
2	Near ATM	01.01.2025	46.4	52.1	75	
3	Transit House	02.01.2025	51.4	64.8	75	
4	CAAQMS Station	02.01.2025	49.2	57.2	75	
5	Gunda Road	03.01.2025	44.6	62.5	75	
6	Gunda Railway Station	03.01.2025	46.2	59.0	75	
7	Bagging Shed	04.01.2025	59.8	66.0	75	
8	Railway Siding	04.01.2025	53.9	61.2	75	
9	4th Gate	06.01.2025	53.5	59.2	75	
10	Bricks Plant	06.01.2025	43.5	52.8	75	
11	Kempuhalla (Wagon Tippler)	07.01.2025	50.8	57.8	75	
12	Danapura Bridge	07.01.2025	59.0	68.2	75	
13	2nd Gate	08.01.2025	52.8	63.5	75	
14	Project Store	08.01.2025	47.8	54.6	75	
15	Dispatch (Truck Parking Area)	08.01.2025	63.4	71.4	75	

Note: Each Location above the Noise Level taken Readings 15 Minutes.

As per CPCB Standards, **INFERENCE** Report Status: - Measured Values for the above parameters are within the limit.

> **Authorised Signatory** K. Ramakrishna Reddy

Technical Manager

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- The result listed refers only to the tested samples & applicance parameters. Endorsement of products is nettern interieu in impress. Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

ANNEXURE-41 GEMS-LD/TF/08/01

NOISE LEVEL MONITORING REPORT

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

WO/ADMIN/FY24/RO18 - 450000125

Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group Sample Type

Atmospheric Pollution Noise Level Monitoring

Particulars of Sample Collected

Lutron: SL-4023SD Sl. No: Q679952

Instrument Details

Date of Calibration: 16.12.2024

Calibration Due Date: 15.12.2025

Month

JANUARY-2025

Report Issue Date

03.02.2025

Method Adopted Report No

IS 9989-1981 Reaffirmed 2014 ULR-TC532324000003846F

		-	No	ise Level o	dB (A)
Sl. No	Location	Date of	Day	Time	Chandand
NO		Monitoring	Min	Max	Standard
1	Main Gate	16.01.2025	50.1	58.2	75
2	Near ATM	16.01.2025	48.6	54.6	75
3	Transit House	17.01.2025	49.6	59.2	75
4	CAAQMS Station	17.01.2025	42.8	49.9	75
5	Gunda Road	18.01.2025	46.4	56.7	75
6	Gunda Railway Station	18.01.2025	58.0	67.2	75
7	Bagging Shed	20.01.2025	56.7	65.0	75
8	Railway Siding	20.01.2025	60.9	67.2	75
9	4th Gate	21.01.2025	50.3	59.6	75
10	Bricks Plant	21.01.2025	48.2	56.1	75
11	Kempuhalla (Wagon Tippler)	22.01.2025	48.2	56.1	75
12	Danapura Bridge	22.01.2025	59.9	66.0	75
13	2nd Gate	23.01.2025	47.6	59.4	75
14	Project Store	23.01.2025	45.6	54.6	75
15	Dispatch (Truck Parking Area)	23.01.2025	68.7	71.4	75

Note: Each Location above the Noise Level taken Readings 15 Minutes.

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit.



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-42 **GEMS-LD/TF/08/01**

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

Customer Reference

WO/ADMIN/FY24/RO18 - 450000125

Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Noise Level Monitoring

Particulars of Sample Collected

Lutron: SL-4023SD Sl. No: Q679953

Instrument Details

Date of Calibration: 16.12.2024

Calibration Due Date:15.12.2025

Month

JANUARY-2025

Report Issue Date

03.02.2025

Method Adopted

IS 9989-1981 Reaffirmed 2014

Report No

ULR-TC532324000004186F

122						Noise Le	vel dB (A)		
Sl.	Location	Date of		Day Time	e	0. 1	N	ight Tim	e	c. 1 1
No		Monitoring	Min	Max	Avg	Standard	Min	Max	Avg	Standard
1	Danapur Village	01.01.2025	42.1	51.2	46.65		35.2	41.8	38.00	
2	Mariyammana Halli	02.01.2025	41.4	50.5	45.95		36.5	41.2	38.85	
3	Hanumana Halli	03.01.2025	40.2	52.3	46.25		37.5	43.5	40.50	45
4	Galemmanagudi	04.01.2025	44.5	54.8	49.65	55	39.9	40.8	40.35	45
5	G.Nagalapura Village	06.01.2025	43.9	53.6	48.75		38.5	41.6	40.05	
6	Gunda Tanda Village	07.01.2025	45.1	51.4	48.25		35.8	42.7	39.25	

Note: Each Location above the Noise Level taken Readings 15 Minutes.

As per CPCB Standards, INFERENCE Report Status: - Measured Values for the above parameters are within the limit.

> Authorised Signatory K. Ramakrishna Reddy Technical Manager

Noise: (Ambient Standards)

A B	G-1	Limit in dB(A) Leq			
Area code	Category of Area Industrial Area Commercial Area	Day Time	Night Time		
A	Industrial Area	75	70		
В	Commercial Area	65	55		
С	Residential Area	55	45		
D	Silence Area	50	40		



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ANNEXURE-43 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. Name of the Industry 1

WO/ADMIN/FY24/RO18 - 450000125 2 **Customer Reference GLOBAL Environment & Mining Services** 3 Sample collected by

Particulars of sample collected **Grab Sampling** 4 GEMS-LD/SOP/32 5 **Sampling Procedure**

Discipline Chemical 6

7 Group Pollution & Environment

Ground Water 8 Sample Type

9 Sample Code 6934

04.01.2025 10 Date of Sampling 04.01.2025 11 Sample Received 12 Date of Analysis : 04.01.2025 : 10.01.2025

Date of Analysis Completion 13 14 Report Issue Date 03.02.2025

: ULR-TC532324000004254F Report Number 15

Results

Sl.	Payamatays	Protocol	Unit	Danapur Village	Standards 10500	
No.	Parameters	Protocol	Ont	(GW1)	Desirable Limits	Permissibl e Limits
1.	pH	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.11	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	2890	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	1734	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.4	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ² · E (Page No. 4-199 to 4-200)	mg/L	218.42	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	-	87.
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	566.25	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	174.15	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	87.48	30	100
12.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	581.40	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	335.00	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.82	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	12.68	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	533.82	200	600

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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					NEXURE-4	
17.	Acidity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	NiI	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.13	0.30	NR
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR

Note: GW1: Danapur Village. NR-No relaxation.

INFERENCE

As per Standards IS: 10500:2012

Report Status: - Measured Values for the above parameters are within the limits.

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> **ANNEXURE-43** GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry 1

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by

GLOBAL Environment & Mining Services

Particulars of sample collected

: Grab Sampling

5 Sampling Procedure : GEMS-LD/SOP/32

Discipline 6

Chemical/Biological

7 Group

Pollution & Environment

8 Sample Type **Ground Water**

9

6934

Sample Code

10 **Date of Sampling** 04.01.2025

Sample Received 11

: 04.01.2025

12 Date of Analysis : 04.01.2025 : 10.01.2025

13 **Date of Analysis Completion** 14 Report Issue Date

03.02.2025

15. Report Number

: GEMS/WATER/2024-2025/4254

Results

Sl.	_		Wait	Danapur Village (GW1)	Standards as per IS: 10500:2012	
No	Parameters	Protocol	Unit		Desirable Limits	Permissible Limits
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15
2.	Cadmium as Cd	APHA-23RD Edition-3111 –B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By Priyanka B M Chemist

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ANNEXURE-44 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** : WO/ADMIN/FY24/RO18 - 450000125

3 Sample collected by **GLOBAL Environment & Mining Services**

Particulars of sample collected 4

Grab Sampling

5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code

6936

10 Date of Sampling

04.01.2025 :

Sample Received 11

04.01.2025

12 Date of Analysis 04.01.2025

Date of Analysis Completion 13

: 10.01.2025

Report Issue Date 14

: 03.02.2025

15 Report Number

ULR-TC532324000004256F

Results

Sl.	Parameters	Protocol	Unit	Hanumanahalli	Standards 10500	-
No	Parameters	Protocol	Onic	Village (GW2)	Desirable Limits	Permissibl e Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.71	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	1480	a	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	852	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.6	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	196.12	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	-	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	270.5	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	58.05	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	34.02	30	100
12.	Total Hardness as CaCO ₃	APHA 23rdEdition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	208.8	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl-	mg/L	113.90	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.68	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	19.84	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	238.7	200	600

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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					ANN	EXURE-44
17.	Acidity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	NíI	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.11	0.30	NR
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR

Note: GW2: Hanumanahalli Village. NR-No relaxation.

As per Standards IS: 10500:2012 INFERENCE

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> **ANNEXURE-44** GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected : Grab Sampling

5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical/Biological

7 Group

Pollution & Environment

8 Sample Type **Ground Water**

6936

9 Sample Code

10 Date of Sampling 04.01.2025

Sample Received

04.01.2025

12 Date of Analysis : 04.01.2025

Date of Analysis Completion

: 10.01.2025

14 Report Issue Date : 03.02.2025

15. Report Number GEMS/WATER/2024-2025/4256

Results

Sl.	Parameters	Protocol	Unit	Hanumanahalli	Standards as per IS: 10500:2012	
No	Farameters	Protocol	Oint	Village (GW2)	Desirable Limits	Permissible Limits
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15
2.	Cadmium as Cd	APHA-23RD Edition-3111 –B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	=
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager

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: gems_hpt@yahoo.com e-mail

Website : www.globalmining.in



ANNEXURE-45 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry 1

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18 - 450000125

3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected

Grab Sampling

5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code 6038

Date of Sampling 10

: 04.01.2025

Sample Received 11

04.01.2025

12 Date of Analysis : 04.01.2025

13 Date of Analysis Completion : 10.01.2025

14 **Report Issue Date** : 03.02.2025

15 Report Number ULR-TC5323240000004257F

Results

Sl.				Galemmana	Standards as per IS: 10500:2012	
No	Parameters	Protocol	Unit	Gudi Village (GW3)	Desirable Limits	Permissi ble Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.66	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	2600	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	1560	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.4	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	152.34	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	-	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	340.05	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00	-	
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	137.36	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	230.85	30	100
12.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	730.3	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	381.90	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	1.14	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	19.24	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	475.23	200	600

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

			ANNEX				
17.	Acidity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	Nil	-	-	
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.12	0.30	NR	
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR	
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30	
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50	
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15	
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR	
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05	
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR	

Note: GW3: GalemmanaGudi Village. NR-No relaxation.

INFERENCE

As per Standards IS: 10500:2012

Report Status: - Measured Values for the above parameters are Within the limits.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-45 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference

: WO/ADMIN/FY24/RO18

3 Sample collected by

GLOBAL Environment & Mining Services

4 Particulars of sample collected

: Grab Sampling

5 Sampling Procedure

GEMS-LD/SOP/32

6 Discipline

: Chemical/Biological

7 Group

: Pollution & Environment

8 Sample Type

: Ground Water

o sample Type

: 6937

9 Sample Code10 Date of Sampling

: 04.01.2025

11 Sample Received

04.01.2025

12 Date of Analysis

: 04.01.2025

13 Date of Analysis Completion

: 10.01.2025

14 Report Issue Date

: 03.02.2025

15. Report Number

: GEMS/WATER/2024-2025/4257

Results

Sl.	Parameters	Protocol	Unit	Galemmana Gudi	Standards as per IS: 10500:2012	
No	Parameters	Protocol	Onic	Village (GW3)	Desirable Limits	Permissible Limits
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15
2.	Cadmium as Cd	APHA-23RD Edition-3111 -B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By Priyanka B M Chemist



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ANNEXURE-46 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** : WO/ADMIN/FY24/R018 - 450000125 3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected **Grab Sampling** 5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code 6935 10 Date of Sampling : 04.01.2025 11 Sample Received : 04.01.2025 12 Date of Analysis 04.01.2025 13 Date of Analysis Completion : 10.01.2025 14 Report Issue Date : 03.02.2025

15 Report Number ULR-TC532324000004255F

Results

Sl.	Parameters	Protocol	Unit	Mariyammana Halli Village	Standards as per IS: 10500:2012	
No		Protocol	Unit	Halli Village (GW4)	Desirable Limits	Permissi ble Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.48	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	2730	-	-
3.	Total Dissolved Solids	APHA 23rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	1638	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.4	1	5
5.	Total Suspended Solids	APHA 23rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0		-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	201.32	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	-	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	339.9	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00	ā	-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	209.31	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	43.74	30	100
12.	Total Hardness as CaCO ₃	APHA 23rdEdition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	595.68	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	467.08	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.62	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	20.10	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	551.18	200	600

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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TC-5323

			ANNEXU					
17.	Acidity as CaCO ₃	APHA 23rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	NiI	-			
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.14	0.30	NR		
19.	Nickel as Ni	APHA 23rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR		
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30		
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50		
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15		
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR		
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05		
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR		

Note: GW4: Mariyammanahalli Village. NR-No relaxation

As per Standards IS: 10500:2012 **INFERENCE**

Report Status: - Measured Values for the above parameters are Within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-46 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference

: WO/ADMIN/FY24/RO18

3 Sample collected by

: GLOBAL Environment & Mining Services

4 Particulars of sample collected

: Grab Sampling

5 Sampling Procedure

: GEMS-LD/SOP/32

6 Discipline

: Chemical/Biological

7 Group

: Pollution & Environment

8 Sample Type

: Ground Water

9 Sample Code

: 6935

10 Date of Sampling

: 04.01.2025

11 Sample Received

: 04.01.2025

12 Date of Analysis

: 04.01.2025

13 Date of Analysis Completion

: 10.01.2025

14 Report Issue Date

: 03.02.2025

15. Report Number

: GEMS/WATER/2024-2025/4255

Results

Sl.	Powemeters	Protocol	Unit	Mariyammana Halli Village	Standards as per IS: 10500:2012	
No	Parameters	Protocol	Oint	(GW4)	Desirable Limits	Permissible Limits
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15
2.	Cadmium as Cd	APHA-23RD Edition-3111 -B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By Priyanka B M Chemist



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ANNEXURE-47 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry

2 **Customer Reference** : WO/ADMIN/FY24/RO18 - 450000125 3 Sample collected by **GLOBAL Environment & Mining Services**

Particulars of sample collected 4 **Grab Sampling** 5 Sampling Procedure GEMS-LD/SOP/32 :

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code 6938 10 Date of Sampling 04.01.2025 11 Sample Received 04.01.2025 12 Date of Analysis : 04.01.2025

13 Date of Analysis Completion : 10.01.2025 Report Issue Date 14 03.02.2025

15 Report Number ULR-TC532324000004258F

Results

Sl.	Parameters	Protocol	Unit	Gunda Thanda	Standards as per IS: 10500:2012	
No	raiameters	Protocol	Ont	(GW5)	Desirable Limits	Permissibl e Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.60	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	1040	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	624	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.5	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	y .	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	218.46	200	400
7.	Phosphorusas P	APHA 23rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	**	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	143.15	-	9
9.	Potassium as K	APHA 23rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00		-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	33.52	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	23.08	30	100
12.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	122.40	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	57.42	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	1.08	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	16.72	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	188.79	200	600

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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					ANN	EXURE-4
17.	Acidity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	NíI	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.13	0.30	NR
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR
24.	Arsenic as As	APHA 23rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR

Note: GW5: Gunda Thanda. NR-No relaxation.

INFERENCE

As per Standards IS: 10500:2012

Report Status: - Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> **ANNEXURE-47** GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference**

WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected

Grab Sampling

5 Sampling Procedure

GEMS-LD/SOP/32

6 Discipline

Chemical/Biological

7 Group Pollution & Environment

8 Sample Type

Ground Water

9 Sample Code 6938

10 Date of Sampling

04.01.2025 :

11 Sample Received 04.01.2025

12 Date of Analysis

: 04.01.2025

13 Date of Analysis Completion : 10.01.2025

Report Issue Date

14 15. Report Number : 03.02.2025 : GEMS/WATER/2024-2025/4258

Results

Sl.	Parameters	Protocol	Unit	Gunda Thanda	Standards as per IS: 10500:2012		
No				(GW5)	Desirable Limits	Permissible Limits	
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15	
2.	Cadmium as Cd	APHA-23RD Edition-3111 –B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR	
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-	
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-	

Note: Ab: Absent, NR: No Relaxation

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

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ANNEXURE-48 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18 - 450000125 3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected **Grab Sampling** 5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code 10 Date of Sampling : 04.01.2025 : 04.01.2025 Sample Received 12 Date of Analysis 04.01.2025 13 Date of Analysis Completion : 10.01.2025 14 Report Issue Date : 03.02.2025

15 Report Number : ULR-TC532324000004259F

Results

Sl.	Parameters	Protocol	Unit	Gunda Village	Standards as per IS: 10500:2012	
No	rurameters	Trotocor	Ont	(GW6)	Desirable Limits	Permissibl e Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.24	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	2740	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	1644	500	2000
4.	Turbidity (NTU)	APHA 23rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.6	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	208.52	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	-	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	368.6	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	90.75	75	200
11.	Magnesium as Mg	APHA 23rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	222.34	30	100
12.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	599.76	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	402.0	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.86	1	1.5
15.	Nitrate Nitrogen as NO₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	17.36	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	531.65	200	600

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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					ANI	VEXURE-48
17.	Acidity as CaCO ₃	APHA 23rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.14	0.30	NR
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<1.0	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR

Note: GW6: Gunda Village. NR-No relaxation.

INFERENCE

As per Standards IS: 10500:2012

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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> **ANNEXURE-48** GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected : Grab Sampling 5 **Sampling Procedure** GEMS-LD/SOP/32 6 Discipline Chemical/Biological 7 Group Pollution & Environment

8 Sample Type **Ground Water**

9 Sample Code 6939 10 Date of Sampling : 04.01.2025 11 Sample Received : 04.01.2025 12 Date of Analysis : 04.01.2025 13 Date of Analysis Completion : 10.01.2025 14 Report Issue Date

Report Number : GEMS/WATER/2024-2025/4259

Results

: 03.02.2025

SI.	Parameters	Protocol	Unit	Gunda Village	Standards as per IS: 10500:2012	
No		110000		(GW6)	Desirable Limits	Permissible Limits
1.	Color	APHA-23RD Edition-2120 C (Pg No. 2 -7 to 2-8)	Hazen	<5	5	15
2.	Cadmium as Cd	APHA-23RD Edition-3111 –B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
3.	Total Coli form count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
4.	Escherichia coli count	IS: 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	

Note: Ab: Absent, NR: No Relaxation

Analysed By Priyanka B M Chemist



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ANNEXURE-49 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. 1 Name of the Industry

2 **Customer Reference** WO/ADMIN/FY24/RO18 - 450000125 3 **GLOBAL Environment & Mining Services** Sample collected by

4 Particulars of sample collected **Grab Sampling** 5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment 8 Sample Type **RO Drinking Water**

9 Sample Code 6940 10 Date of Sampling : 04.01.2025 11 Sample Received : 04.01.2025 12 Date of Analysis 04.01.2025 13 Date of Analysis Completion : 10.01.2025 14

Report Issue Date

Report Number : ULR-TC532324000004260F

Results

: 03.02.2025

Sl.	Parameters	Dueteral	IIia	RO Drinking	Standards as per IS: 10500:2012	
No	Parameters	Protocol	Unit	Water	Desirable Limits	Permissi ble Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.86	6.5 to 8.5	NR
2.	Conductivity	APHA 23 rd Edition 2017 2510 A (Pg. No.2-56 to 2-58)	μS/cm	220	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	132	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	<1.0	.	-
6.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	7.28	200	400
7.	Phosphorusas P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	Nil	a	-
8.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	25.05	-	-
9.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	14.71	75	200
11.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	8.50	30	100
12.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	51.0	200	600
13.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	17.22	250	1000
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.08	1	1.5
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	2.98	45	NR
16.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	71.61	200	600

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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					ANN	EXURE-49
17.	Acidity as CaCO ₃	APHA 23 rd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B. (Pg. No.3-80 to 3-82)	mg/L	0.08	0.30	NR
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.02	0.02	NR
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	NR
24.	Arsenic as As	APHA 23 rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.01	0.01	0.05
25.	Chromium as Cr	APHA 23rd Edition 2017 3500 Cr-B. (Pg. No.3-71 to 3-72)	mg/L	<0.01	0.05	NR
26.	Mercury as Hg	APHA 23rd Edition 2017 3114 B. (Pg. No.3-36 to 3-40)	mg/L	<0.001	0.001	NR

Note: W6: RO Drinking Water. NR-No relaxation. Ab-Absent.

INFERENCE

As per Standards IS: 10500:2012

Report Status: - Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> **ANNEXURE-49** GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected 5 Sampling Procedure

: Grab Sampling

6 Discipline : GEMS-LD/SOP/32 Chemical/Biological

7

: Pollution & Environment

Group

: RO Drinking Water

8 Sample Type 9

6940

Sample Code 10 Date of Sampling

04.01.2025 :

11 Sample Received : 04.01.2025

12 Date of Analysis : 04.01.2025

13 Date of Analysis Completion

: 10.01.2025

14 Report Issue Date : 03.02.2025

15. Report Number

: GEMS/RO/2024-2025/4260

Results

Sl.	Parameters	Protocol	Unit	RO		ards as per IS: 0500:2012
No	rarameters	Protocol	Onit	Drinking Water	Desirable Limits	Permissible Limits
1.	colour	IS: 3025 (PART 4)- 1984, RA-2012 Platinum cobalt Method	Hazen	<5	5	15
2.	Odour	IS: 3025 (PART 5)- 1983, RA-2012, True Odour	=	Agreeable	Agreeable	Agreeable
3.	Total Residual chlorine	IS:3025 (part 26)-1986, RA-2003, Iodometric method	mg/L	Nil	0.2	1.0
4.	Oil & Grease	Clause 6 of IS 3025 (Part 39) Infrared	mg/L	Nil	0.8	No Relaxation
5.	Cadmium as Cd	APHA-23RD Edition-3111 –B (Pg No.3 -20 to 3-21)	mg/L	BDL	0.003	NR
6.	Selenium as Se	APHA 23 rd Edition 3114 B. Direct Air Acetylene Flame Method	mg/L	BDL	0.01	No Relaxation
7.	Cyanides (as CN)	APHA 23 RD Edition 4500 CN- (Pg. No.4-45 to 4-46)	mg/L	BDL	0.05	No Relaxation
8.	Phenolic Compound as phenols	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	1.0	
9.	Anionic detergents (as MBAS)	APHA 23 RD Edition 5540 C (Pg. No.5-55 to 5-57)	mg/L	BDL	0.2	1.0
10.	Boron as B	APHA 23rd Edition 2017 4500 B-B (p.no.4-25 to 4-26)	mg/L	BDL	0.5	1.0
11.	Escherichia coli count	IS:15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	

Note: Ab: Absent, NR: No Relaxation,

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy **Technical Manager**

HOSPET

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ANNEXURE-50 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18 - 450000125 3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected **Composite Sampling** 5 Sampling Procedure GEMS-LD/SOP/32

6 Discipline Chemical

7 Group Pollution & Environment

8 Sample Type **Sewage Treatment Plant (Outlet)**

9 Date of Sampling 04.01.2025 10 Sample Received : 04.01.2025 11 Date of Analysis : 04.01.2025 12 Date of Analysis Completion : 10.01.2025 13 Report Issue Date : 03.02.2025

Report Number : ULR-TC532324000004268F

Sl.							
No.	Parameters	Protocol	Unit	STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	As per KSPCB Std
		Sample code	-	6948	6949	6950	KSI CD Stu
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.70	7.46	7.04	6.5 to 8.5
2.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	11.0	13.0	9.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS:3025 (part 44)-1993, Reaffirmed -2019	mg/L	2.0	6.0	4.0	<10
4.	Chemical Oxygen Demand as COD	APHA 23 rd Edition 2017 5220 C (Pg. No.5-18 to 5-19)	mg/L	38.72	12.09	19.36	<50
5.	Oil & Grease	APHA 23rd Edition 2017 5520 B (Pg. No.5-41 to 5-42)	mg/L	6.0	2.0	4.0	10

Note: BDL-Below detectable Limit. INFERENCE: The Measured values are within the Limit.

STP 45 KLD - Near Fortivia STP-1 90 KLD -Near ISP Area

STP-2 90 KLD -Near Gunda Guest House

Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy

Technical Manager



- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-50 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry 1

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference**

: WO/ADMIN/FY24/RO18

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected

Composite Sampling GEMS-LD/SOP/32

5 Sampling Procedure 6 Discipline

7 Group : Chemical

: Pollution & Environment

8 Sample Type Sewage Treatment Plant (Outlet)

9 Date of Sampling

: 04.01.2025

10 Sample Received

: 04.01.2025

11 Date of Analysis 12

: 04.01.2025 : 10.01.2025

Date of Analysis Completion 13 Report Issue Date

: 03.02.2025

14. Report Number

: GEMS/RO/2024-2025/4268

Sl.		100			Results		A
No.	Parameters	Protocol	Unit	STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	As per KSPCB
		Sample code	-	6948	6949	6950	Std
1.	Color	APHA 23 RD Edition 2120 B (Pg. No.2-6 to 2-7)	Hazen	5	5	5	-
2.	Odour	IS: 3025 (PART 5)- 1983, RA- 2012, True Odour	-	Agree able	Agree able	Agree able	-
3.	Cyanides (as CN)	APHA 23 RD Edition 4500 CN- (Pg. No.4-45 to 4-46)	mg/L	BDL	BDL	BDL	-
4.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	BDL	-
5.	Chromium (as Cr ⁶⁺)	APHA-23 RD Edition-3500 Cr B (Pg. No.3-71 to 3-72)	mg/L	<0.001	<0.001	<0.001	-
6.	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	0.70	2.1	0.42	5
7.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	4.16	3.84	5.32	10
8.	Fecal coliform	APHA-23 RD Edition-9221 E (Pg. No.9-77 to 9-78)	CFU/100ml	46	27	22	Less than

Note: BDL-Below detectable Limit. INFERENCE: The Measured values are within the Limit.

STP 45 KLD - Near Fortivia STP-1 90 KLD -Near ISP Area

STP-2 90 KLD -Near Gunda Guest House

Analysed By Priyanka B M Chemist

Authorised Signatory

K. Ramakrishna Reddy Technical Manager

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TC-5323

ANNEXURE-51 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

Name of the Industry

: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference**

WO/ADMIN/FY24/RO18 - 450000125

3 Sample collected by

GLOBAL Environment & Mining Services Composite Sampling :

4 Particulars of sample collected 5 Sampling Procedure

: GEMS-LD/SOP/32

6 Discipline

Chemical

7 Group

Pollution & Environment

8 Sample Type

Waste Water

9 Date of Sampling : 04.01.2025

10 Sample Received

: 04.01.2025

11 Date of Analysis

: 04.01.2025

12 Date of Analysis Completion

: 10.01.2025

13 Report Issue Date

: 03.02.2025

Report Number

: ULR-TC532324000004263F

Results

				Res	ults	
Sl. No.	Parameters	Protocol	col Unit		Neutralization Pit 2x70 MW Power Plant	As per KSPCB Std
		Sa	mple Code	6943	6944	
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	8.47	7.70	6.5 to 9.0
2.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	12.0	13.0	100
3.	Chemical Oxygen Demand as COD	APHA 23 rd Edition 2017 5220 C (Pg. No.5-18 to 5-19)	mg/L	38.72	58.08	250
4.	Oil & Grease	APHA 23rd Edition 2017 5520 B (Pg. No.5-41 to 5-42)	mg/L	4.0	6.0	10

Note: BDL-Below detectable Limit.

INFERENCE: The Measured values are within the Limit.

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager



The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> ANNEXURE-52 GEMS-LD/TF/23/01

Analysis Report of Surface Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 Customer Reference : WO/ADMIN/FY24/R018

3 Sample collected by : GLOBAL Environment & Mining Services

4 Particulars of sample collected : Composite Sampling 5 Sampling Procedure : GEMS-LD/SOP/32

6 Discipline : Chemical

7 Group : Pollution & Environment

8 Sample Type **Surface Water** 9 Date of Sampling : 04.01.2025 10 Sample Received : 04.01.2025 11 Date of Analysis : 04.01.2025 12 **Date of Analysis Completion** : 10.01.2025 13 Report Issue Date : 03.02.2025

14. Report Number : **GEMS/SW/2024-2025/4263**

SI.				Res	ults	10,000
No.	Parameters	Protocol	Unit	Danayakanakere Upstream	Danayakanakere Downstream	IS 2296 - 1982
		Sa	ample code	6943	6944	CLASS -B
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.46	7.28	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS:3025 (part 44)-1993, Reaffirmed -2019	mg/L	0.00	0.00	3.0
3.	Fluorides as F	APHA 23 RD Edition 4500F ⁻ D (Pg. No.4-90 to 4-91)	mg/L	0.68	0.42	1.5
4.	Arsenic as As	APHA-23 RD Edition-3114 -B (Pg. No.3 -36 to 3-40)	mg/L	<0.1	<0.1	0.2
5.	Dissolved Oxygen	APHA 23 RD Edition 4500 C (Pg. No.4-146)	mg/L	4.8	5.6	>5.0
6.	Color	APHA 23 RD Edition 2120 B (Pg. No.2-6 to 2-7)	Hazen	15	15	300
7.	Cyanides (as CN)	APHA 23 RD Edition 4500 CN ⁻ (Pg. No.4-45 to 4-46)	mg/L	BDL	BDL	0.05
8.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9.	Chromium (as Cr ⁶⁺)	APHA-23 RD Edition-3500 Cr B (Pg. No.3-71 to 3-72)	mg/L	<0.001	<0.001	1.0
10.	Anionic detergents (as MBAS)	APHA 23 RD Edition 5540 C (Pg. No.5-55 to 5-57)	mg/L	BDL	BDL	1.0
11.	Total Coliform Organisms					
	Total Coli forms	IS: 1622:1981	MPN/ 100 ml	Absent	Absent	500
	Escherichia coli or E. coli	IS: 1622:1981	MPN/ 100 ml	Absent	Absent	-

Analysed By Priyanka B M Chemist



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> **ANNEXURE-53** GEMS-LD/TF/23/01

Analysis Report of Surface Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** WO/ADMIN/FY24/RO18

3 Sample collected by

GLOBAL Environment & Mining Services

4 Particulars of sample collected : Composite Sampling : GEMS-LD/SOP/32

5 Sampling Procedure Discipline

: Chemical

6 7 Group

: Pollution & Environment

8 Sample Type : Surface Water

9 **Date of Sampling**

: 04.01.2025

10 Sample Received : 04.01.2025

11

: 04.01.2025

Date of Analysis 12 **Date of Analysis Completion**

: 10.01.2025

13 Report Issue Date : 03.02.2025

Report Number

: GEMS/SW/2024-2025/4265

Sl. No.	Parameters	Protocol	Unit	Results					
				KempuHalla Upstream	KempuHalla Downstream	IS 2296 - 1982			
			Sample code	6945	6946	CLASS -B			
1.	pН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	8.14	7.88	6.5-8.5			
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS:3025 (part 44)-1993, Reaffirmed -2019	mg/L	3.0	5.0	3.0			
3.	Fluorides as F	APHA 23 RD Edition 4500F ⁻ D (Pg. No.4-90 to 4-91)	mg/L	0.92	1.02	1.5			
4.	Arsenic as As	APHA-23 RD Edition-3114 –B (Pg. No.3 -36 to 3-40)	mg/L	<0.1	<0.1	0.2			
5.	Dissolved Oxygen	APHA 23 RD Edition 4500 C (Pg. No.4-146)	mg/L	5.6	6.0	>5.0			
6.	Color	APHA 23 RD Edition 2120 B (Pg. No.2-6 to 2-7)	Hazen	10	10	300			
7.	Cyanides (as CN)	APHA 23 RD Edition 4500 CN- (Pg. No.4-45 to 4-46)	mg/L	BDL	BDL	0.05			
8.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005			
9.	Chromium (as Cr ⁶⁺)	APHA-23 RD Edition-3500 Cr B (Pg. No.3-71 to 3-72)	mg/L	<0.001	<0.001	1.0			
10.	Anionic detergents (as MBAS)	APHA 23 RD Edition 5540 C (Pg. No.5-55 to 5-57)	mg/L	BDL	BDL	1.0			
11.	Total Coliform Organisms,								
	Total Coli forms	IS: 1622:1981	MPN/ 100 ml	Absent	Absent	500			
	Escherichia coli or E. coli	IS: 1622:1981	MPN/ 100 ml	Absent	Absent	-			

Analysed By Priyanka B M Chemist

Authorised Signatory & K. Ramakrishna Reddy

Technical Manager HOSPE

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> **ANNEXURE-54** GEMS-LD/TF/23/01

Analysis Report of Surface Water Quality Data

1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.

2 **Customer Reference** : WO/ADMIN/FY24/RO18

3 Sample collected by **GLOBAL Environment & Mining Services**

4 Particulars of sample collected Sampling Procedure

: Composite Sampling

5 Discipline GEMS-LD/SOP/32

6

Chemical/Biological

7 Group : Pollution & Environment

8 Sample Type : Surface Water

9 Date of Sampling 04.01.2025

10 Sample Received : 04.01.2025

11 Date of Analysis : 04.01.2025

12 Date of Analysis Completion

: 10.01.2025

13 Report Issue Date : 03.02.2025

14. Report Number

: GEMS/SW/2024-2025/4267

Sl. No.	Parameters	Protocol	Mait	Results	IS 2296 -1982 CLASS -B			
			Unit	Tungabhadra dam				
			Sample Code	6947	CLASS -D			
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.32	6.5-8.5			
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS:3025 (part 44)-1993, Reaffirmed -2019	mg/L	5.0	3.0			
3.	Fluorides as F	APHA 23 RD Edition 4500F ⁻ D (Pg. No.4-90 to 4-91)	mg/L	0.38	1.5			
4.	Arsenic as As	APHA-23 RD Edition-3114 –B (Pg. No.3 -36 to 3-40)	mg/L	BDL	0.2			
5.	Dissolved Oxygen	APHA 23 RD Edition 4500 C (Pg. No.4-146)	mg/L	5.2	>5.0			
6.	Color	APHA 23 RD Edition 2120 B (Pg. No.2-6 to 2-7)	Hazen	5	300			
7.	Cyanides (as CN)	APHA 23 RD Edition 4500 CN- (Pg. No.4-45 to 4-46)	mg/L	BDL	0.05			
8.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	0.005			
9.	Chromium (as Cr ⁶⁺)	APHA-23 RD Edition-3500 Cr B (Pg. No.3-71 to 3-72)	mg/L	BDL	1.0			
10.	Anionic detergents (as MBAS)	APHA 23 RD Edition 5540 C (Pg. No.5-55 to 5-57)	mg/L	BDL	1.0			
11	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	156	-			
12	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	8.0	-			
13.	Total Coliform Organisms,							
	Total Coli forms	IS:1622:1981	MPN/ 100 ml	21	500			
	Escherichia coli or E. coli	IS: 1622:1981	MPN/ 100 ml	Absent	-			

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.

Analysed By Priyanka B M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

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