



BMM Ispat Ltd.,

ENVIRONMENTAL MONITORING REPORT



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

MAY-2025

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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.

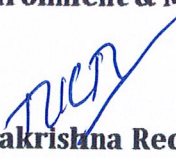
As part of the conditions and inherent concern on health of the employees and surroundings **M/s. BMM Ispat Ltd.**, as appointed **M/s. Global Environment & Mining Services LLP**, Hosapete, to carry out the environmental pollution monitoring on AAQ Monitoring, Fugitive monitoring, Noise Monitoring, Water Analysis & Stack monitoring pollution and submit the same to the Pollution Control Board.

Accordingly, M/s. Global Environment & Mining Services LLP, 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 LLP

Place: Hosapete
Date:05.06.2025


K. Ramakrishna Reddy
(Technical Manager)



1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

The journey of the BMM Group is a reflection of the path tread by every entrepreneur who believes in the human potential and one's own ability to bring about a life affirming change that transcends time. BMM Group was born out of this committed belief of Late Shri. Udai chand Singhi.

Entrenched in the Indian ethos, with an astute understanding of market needs, values and sensibilities **Mr. Dinesh Kumar Singhi** inherited the legacy from his father and has built the BMM Group on sound fundamentals since 1998. He steered the company towards growth by being the first mining company to establish a power generation plant for captive use, and creating a steel plant from the captive ore mine. Over the last 12 years, BMM has been able to add value to every relationship under his able and dynamic leadership.

Today, BMM is a 4900 Crores Company due to its focus on market orientation and optimal usage of technology to achieve process efficiency and value addition. BMM has always believed in the principle of sharing and hence continues to transfer this benefit derived from sustained growth to its employees, partners and associates. The unique value proposition that defines the very fabric of the BMM culture is the firm's belief in unleashing this 'potential in tones' in terms of its human capital, continuous growth and consistent benefits to its stakeholders.

The human potential at BMM is reflected in the depth of domain expertise across diverse sectors and dynamism of youth at various levels in the Organization. Business operations lead by professionals with decades of market understanding and a dynamic team enables BMM to deliver superior product quality. This human potential keeps BMM attuned to scaling new heights and meeting customer expectations. While consistently adding value to its partners, BMM is sensitive to its responsibility towards the environment by implementing best practices in its Business Operations and contribution to society through various social Endeavors.

BMM has a commitment of being a good Corporate Citizen and is committed to achieving business goals through ethical means. BMM hence has been able to have deeper relevance to society by creating value that is inclusive and truly benefits all.



1.2 PROMOTERS OF THE PROJECT

BMM Group, one of the leading Steel, Power & Mining companies in India that has achieved the present level under the leadership and guidance of **Sri. Dinesh Kumar Singhi**, the Founder & Chairman of the group, is promoting the project. His vision is to globalize the company business and do value addition by operating responsibly and in a sustainable manner in exploring, exploiting, excavating and processing minerals followed by setting up steel plant facilities.

BMM is a step towards forward integration has set up new merchant Bar Mill. The works is located at:

BMM ISPAT LIMITED

(Registered Office & Works)

#114, Danapur

Hosapete - 583 222

Vijayanagara Dist., Karnataka

Phone +91 08394-264000, +91 9686550808/09

Fax - 08394 264010

1.3 Site Location

BMM ISPAT LIMITED is located at Danapur about 15 Kms away from Hosapete in Karnataka. The plant site can be connected by national highway, viz. NH-13. The plant is 1 km away from the NH-13 near Danapur village. The nearest railway station is Hospet; Bangalore is at a distance of 300 kms. Seaport is Belikere and Karwar, the nearest Airport is in the private sector belonging to JSW, a Jindal Group company at Thoranagallu (Vidyanagara).

M/s. BMM ISPAT Ltd., Has accorded Environmental Clearance for 2.0 MTPA Integrated Steel Plant, with the following facilities.

S.N.	Items	Capacity
1	Iron ore beneficiation plant	4.70 MTPA
2	Palletizing Plant	2.40 MTPA
3	DRI Plant	0.70 MTPA
4	Coke Oven	0.80 MTPA
5	Sinter Plant	2.50 MTPA
6	Blast furnace	1.70 MTPA
7	EHF & BOF Steel making shop	2.30 MTPA
8	Continuous casting machines Slab Caster Billet Caster	1.10 MTPA 1.10 MTPA
9	Rolling mills: Hot strip mill Structural/wire rods	1.00 MTPA 1.00 MTPA
10	Oxygen Plant	2x500 TPD
11	Calcining	1,080 TPD
12	Cement Plant	1.40 MTPA
13	Power Plant	230 MW
14	Sponge Iron Division -1	2 x 100 TPD
15	Induction furnace (billets)	9000 tonnes/month
16	Rolling Mill (TMT rods)	9000 tonnes/month
17	Captive Power Plant	25 MW

Out of the above units, presently **4 x 500 TPD Sponge Iron Plants** and **1X70 MW Thermal Power Plants** have been commissioned on August 2011. Beneficiation plant-2, Pellet Plant-2 are commissioned on March 2012. 2X70 MW Thermal based power plants have commissioned on Jan 2013, EAF, Steel Making Shop, CCM, Rolling Mill, Oxygen plants are commissioned on August 2015. Remaining units are under various stages of implementation.

Hence environmental pollution monitoring is being carried out for 4 x 500 TPD sponge iron plants, 1X70 MW Thermal Power Plant, 1.3MTPA Beneficiation, 1.2MTPA Pellet Plant, 2X70MW Power plant, SMS, and RML.

1.4 The report includes environmental monitoring data collected at above site for the month of **MAY-2025**. The Parameters monitored are:

- ❖ Ambient Air Quality
- ❖ Fugitive Dust Level
- ❖ Stack Emission
- ❖ Ambient Noise Level
- ❖ Water Quality

2.0 Fugitive Emission Monitoring

Fugitive air quality was monitored 56 samples were collected from the analyzed for SPM analyzed by gravimetric method. Work Zone Air quality was monitored at all Plant area and material handling area.

3.0 Stack Monitoring

Stack Monitoring was Collected from Enviro Instrument Stack sampler EI-106 stack monitoring was used for drawing the flue gas. Sulphur dioxide and oxides of Nitrogen in the flue gas was sampled by bubbling flue gas solution respectively and the analyses of the pollutants were done as per the Indian Standard procedures prescribed by CPCB/BIS. Stack Emission level was monitored as per the statutory requirement on twice in a month.

DATA ANALYSIS

3.1 BUFFERZONE AMBIENT AIR QUALITY STATUS

Danapur Village (A1)

At this location, average of PM10, PM2.5, SO₂, NO₂ values Average 68.74, 21.02, 13.15 & 15.69 µg/m³ respectively. All above the values were found within the Limits. And the results given in **Annexure-1**.

Mariyammanahalli Village (A2)

At this location, average of PM10, PM2.5, SO₂, NO₂ values Average 59.59, 19.16, 12.48 & 14.59 µg/m³ respectively. All above the values were found within the Limits. And the results given in **Annexure-2**.

Hanumanahalli Village (A3)

At this location, average of PM10, PM2.5, SO₂, NO₂ values Average 60.22, 20.66, 11.55 & 13.97 µg/m³ respectively. All above the values were found within the Limits. Results given in **Annexure-3**.

Galemmanagudi Village (A4)

At this location, average of PM10, PM2.5, SO₂, NO₂ values Average 69.03, 18.86, 14.29 & 16.76 µg/m³ respectively. All above the values were found within the Limits. Results given in **Annexure-4**.

G Nagalapura Village (A5)

At this location, average of PM10, PM2.5, SO2, NO2 values Average 40.41, 10.93, 11.07 & 13.20 $\mu\text{g}/\text{m}^3$ respectively. All above the values were found within the Limits. Results given in **Annexure-5**.

Gunda Tanda Village (A6)

At this location, average of PM10, PM2.5, SO2, NO2 values Average 41.22, 12.57, 9.90 & 11.51 $\mu\text{g}/\text{m}^3$ respectively. All above the values were found within the Limits. Results given in **Annexure-6**.

5.1 FUGITIVE DUST CONCENTRATION

Fortnightly fugitive air quality was monitored all plant area SPM value minimum 177.90 $\mu\text{g}/\text{m}^3$, maximum value 1924.95 $\mu\text{g}/\text{m}^3$ and average value 730.87 $\mu\text{g}/\text{m}^3$. The Fugitive air quality 1st & 2nd Fortnight Results given in **Annexure-7 to Annexure-12**.

5.2 STACK MONITORING

Stack emission level was monitored all chimneys' PM values (mg/Nm^3) 1st and 2nd Fortnight Minimum Value 5.30 mg/Nm^3 , Maximum Value 44.69 mg/Nm^3 & Average Value 26.65 mg/Nm^3 . 1st & 2nd Fortnight Results are given in **Annexure-13 to Annexure-42**.

5.3 NOISE LEVEL MEASUREMENT

Noise level was recorded at 30 locations each in Ambient and work zone area using Sound Level Meter (Equinox-EQ 107 Instrument / Lutron) The Day time noise level values were ranging between 43.50 to 73.50 dB (A). The noise level status is given in **Annexure-43 to Annexure-44**.

5.4 Water Sample Collected at 17 locations in side plant and surrounding nearest villages and nearest surface water Sample Collected every Month. The Water Analysis Test Report is given in **Annexure-46 to Annexure-57**.

5.5 CONCLUSION

All the monitored Environmental parameters were found to be well within the statutory norms and the same are enclosed as follows.



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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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A1-Danapur Village**
Duration of Monitoring : 24 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMMIL/ NAAQ /2025-26/361**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS:5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	695	86.04	100	29.53	60	9.86	80	13.14	80
06.05.2025	07.05.2025	725	73.86		15.64		14.64		17.07	
12.05.2025	13.05.2025	927	80.54		15.73		14.22		16.54	
13.05.2025	14.05.2025	970	69.11		21.94		9.53		12.70	
22.05.2025	23.05.2025	1178	71.32		20.78		15.28		16.68	
23.05.2025	24.05.2025	1264	63.93		28.57		14.79		17.05	
26.05.2025	27.05.2025	1304	51.05		21.62		12.57		14.93	
27.05.2025	28.05.2025	1374	54.08		14.37		14.28		17.41	
Average			68.74		21.02		13.15		15.69	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Greentech instruments / GTI-131
3	Serial No	R.D.S. / 197-C-21	PM2.5 / PM10 Sampler / 695-DTI-2024
4	Calibration Date	08.07.2024	05.06.2024
5	Calibration Due Date	07.07.2025	04.06.2025

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

- 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 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : MAY-2025
Location : A1-Danapur Village
Duration of Monitoring : 1 Hour
Report Issued Date : 05.06.2025
Report Number : GEMS/BMMIL/NAAQ/2025-26/361

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	695	0.10	4.0
2	06.05.2025	725	<0.01	
3	12.05.2025	927	<0.01	
4	13.05.2025	970	<0.01	
5	22.05.2025	1178	0.12	
6	23.05.2025	1264	<0.01	
7	26.05.2025	1304	<0.01	
8	27.05.2025	1374	<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-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

****End of the Report****

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AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

Address:T Kotresh S/o T Thyappa Vyasankere colony Danapur
Near VRM Hospital

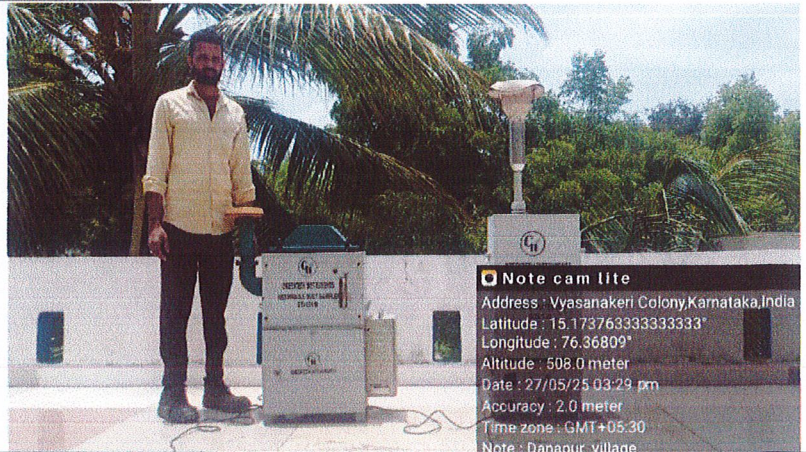
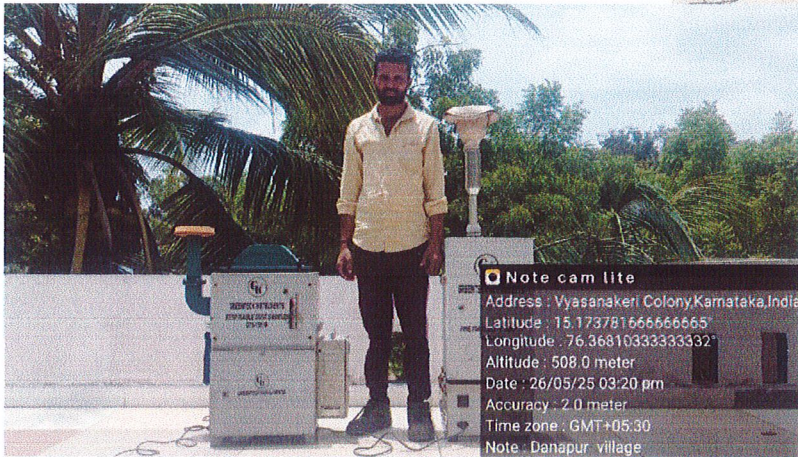
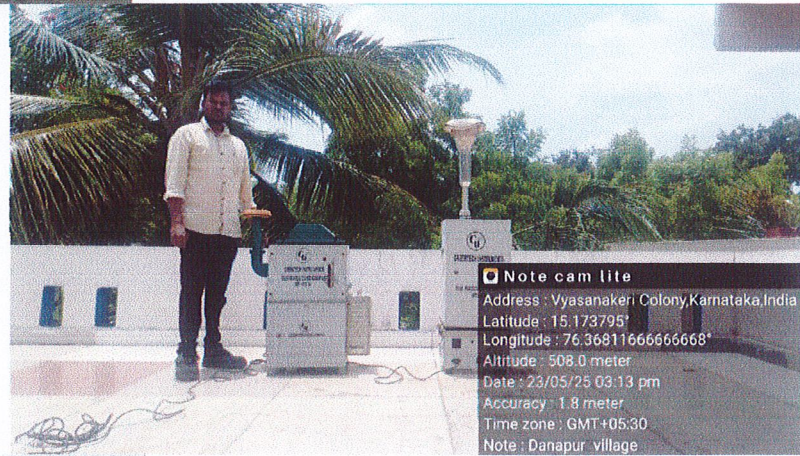
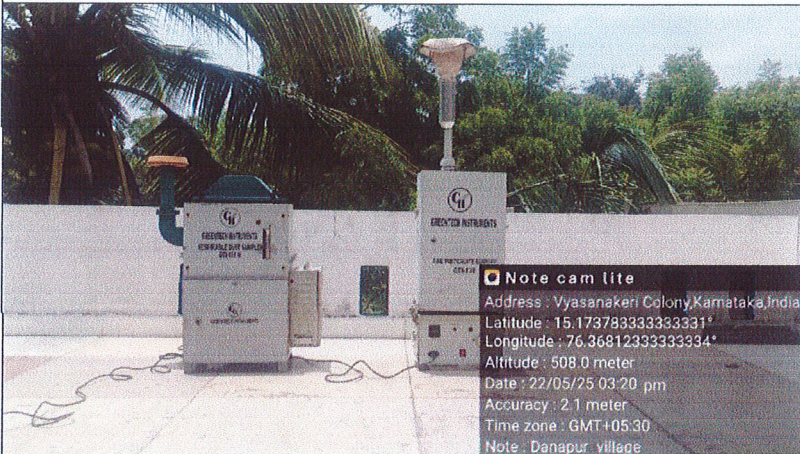


AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

Address: T Kotresh S/o T Thyappa Vyasankere colony Danapur

Near VRM Hospital





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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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A2-Mariyammanahalli Village**
Duration of Monitoring : 24 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMMIL/ NAAQ /2025-26/363**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	697	68.19	100	8.94	60	14.67	80	16.80	80
06.05.2025	07.05.2025	727	49.41		15.21		13.57		15.89	
12.05.2025	13.05.2025	929	64.17		16.04		9.49		13.27	
13.05.2025	14.05.2025	972	78.18		24.28		10.77		13.97	
22.05.2025	23.05.2025	1180	59.35		23.86		11.79		14.38	
23.05.2025	24.05.2025	1266	50.99		19.42		9.34		10.65	
26.05.2025	27.05.2025	1306	50.57		24.37		14.80		15.90	
27.05.2025	28.05.2025	1376	55.83		21.14		15.42		15.87	
Average			59.59		19.16		12.48		14.59	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Greentech instruments / GTI-131
3	Serial No	R.D.S. / 197-C-21	PM2.5 / PM10 Sampler / 696-DTI-2024
4	Calibration Date	08.07.2024	05.06.2024
5	Calibration Due Date	07.07.2025	04.06.2025

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

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ANNEXURE-02
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ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : MAY-2025
Location : A2-Mariyammanahalli Village
Duration of Monitoring : 1 Hour
Report Issued Date : 05.06.2025
Report Number : GEMS/BMM/NAAQ/2025-26/363

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	697	<0.01	4.0
2	06.05.2025	727	<0.01	
3	12.05.2025	929	<0.01	
4	13.05.2025	972	<0.01	
5	22.05.2025	1180	<0.01	
6	23.05.2025	1266	<0.01	
7	26.05.2025	1306	0.12	
8	27.05.2025	1376	<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-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

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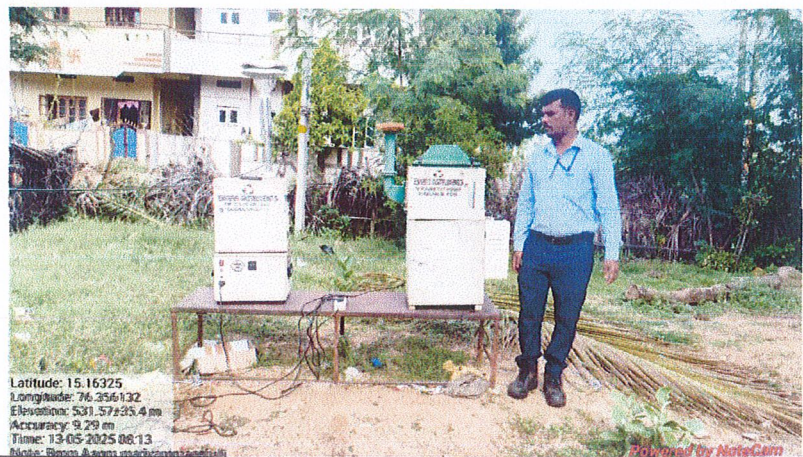
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AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

Address: Maruthi G. S/o. Uppara Ramappa 6th ward Venkatapura Road ,MMHalli.



AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

Address: Maruthi G S/o Uppara Ramappa 6th ward Venkatapura Road ,MMHalli.





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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

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Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A3-Hanumanahalli Village**
Duration of Monitoring : 24 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMMIL/ NAAQ /2025-26/362**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	696	71.15	100	19.53	60	9.90	80	14.14	80
06.05.2025	07.05.2025	726	62.71		26.95		11.20		14.79	
12.05.2025	13.05.2025	928	65.00		23.69		14.00		16.32	
13.05.2025	14.05.2025	971	66.64		26.84		15.00		17.09	
22.05.2025	23.05.2025	1179	82.41		13.23		12.59		13.53	
23.05.2025	24.05.2025	1265	52.19		16.94		11.26		14.08	
26.05.2025	27.05.2025	1305	38.24		20.75		09.46		10.94	
27.05.2025	28.05.2025	1375	43.39		17.31		8.99		10.87	
Average			60.22		20.66		11.55		13.97	

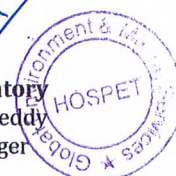
SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Greentech instruments / GTI-131
3	Serial No	R.D.S. / 197-C-21	PM2.5 /PM10 Sampler / 696-DTI-2024
4	Calibration Date	08.07.2024	05.06.2024
5	Calibration Due Date	07.07.2025	04.06.2025

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

****End of the Report****

Brunda B
Analysed By
Brunda.B
Chemist

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



Note:

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

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A3-Hanumanahalli Village**
Duration of Monitoring : 1 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMM/NAAQ/2025-26/362**

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	696	0.12	4.0
2	06.05.2025	726	0.10	
3	12.05.2025	928	0.12	
4	13.05.2025	971	<0.01	
5	22.05.2025	1179	<0.01	
6	23.05.2025	1265	<0.01	
7	26.05.2025	1305	<0.01	
8	27.05.2025	1375	<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-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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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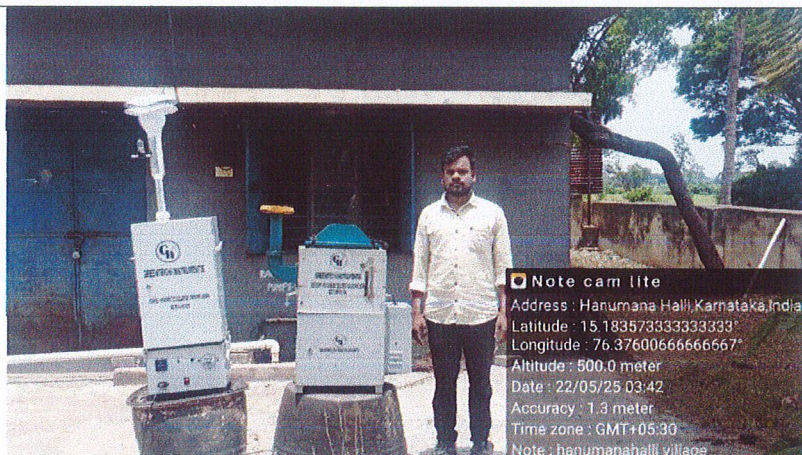
AMBIENT AIR QUALITY MONITORING STATION

Location: Hanumanahalli

Address: BMM OHC Hospital Hanumanahalli Near STP



AMBIENT AIR QUALITY MONITORING STATION
Location: Hanumanahalli
Address: BMM OHC Hospital Hanumanahalli Near STP



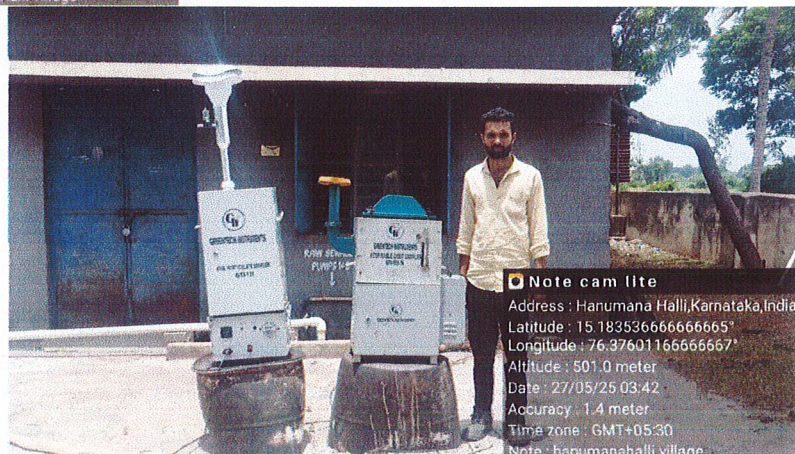
Note cam lite
Address : Hanumana Halli, Karnataka, India
Latitude : 15.183573333333333°
Longitude : 76.37600666666667°
Altitude : 500.0 meter
Date : 22/05/25 03:42
Accuracy : 1.3 meter
Time zone : GMT+05:30
Note : hanumanahalli village



Note cam lite
Address : Hanumana Halli, Karnataka, India
Latitude : 15.183583333333335°
Longitude : 76.37599833333334°
Altitude : 500.0 meter
Date : 23/05/25 03:40
Accuracy : 1.2 meter
Time zone : GMT+05:30
Note : hanumanahalli village



Note cam lite
Address : Hanumana Halli, Karnataka, India
Latitude : 15.183585°
Longitude : 76.37600333333333°
Altitude : 500.0 meter
Date : 26/05/25 03:42
Accuracy : 1.7 meter
Time zone : GMT+05:30
Note : hanumanahalli village



Note cam lite
Address : Hanumana Halli, Karnataka, India
Latitude : 15.183536666666665°
Longitude : 76.37601166666667°
Altitude : 501.0 meter
Date : 27/05/25 03:42
Accuracy : 1.4 meter
Time zone : GMT+05:30
Note : hanumanahalli village



GLOBAL ENVIRONMENT & MINING SERVICES

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 Ph : 08394 355369
 e-mail : gems_hpt@yahoo.com
 Website : www.globalmining.in

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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: MAY-2025
Location	: A4-Galemmanagudi Village
Duration of Monitoring	: 24 Hour
Report Issue Date	: 05.06.2025
Report Number	: GEMS/BMMIL/ NAAQ /2025-26/364

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	698	74.54	100	20.68	60	12.67	80	16.50	80
06.05.2025	07.05.2025	728	73.98		23.92		9.43		11.32	
12.05.2025	13.05.2025	930	82.53		20.03		15.86		18.67	
13.05.2025	14.05.2025	973	73.47		13.18		13.41		12.56	
22.05.2025	23.05.2025	1181	67.15		25.97		18.59		19.54	
23.05.2025	24.05.2025	1267	61.36		18.29		14.56		18.33	
26.05.2025	27.05.2025	1307	56.95		16.29		14.38		18.83	
27.05.2025	28.05.2025	1377	62.28		12.53		15.40		18.32	
Average			69.03		18.86		14.29		16.76	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	
2	Make & Model	Enviro instruments / EI-142 NL	
3	Serial No	R.D.S./198-C-21	
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.

****End of the Report****

Br Br
Analysed By
 Brunda.B
 Chemist

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



Note:

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Website : www.globalmining.in

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A4-Galemmanagudi Village**
Duration of Monitoring : 1 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMM/NAAQ/2025-26/364**

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	698	0.12	4.0
2	06.05.2025	728	0.14	
3	12.05.2025	930	0.10	
4	13.05.2025	973	<0.01	
5	22.05.2025	1181	<0.01	
6	23.05.2025	1267	<0.01	
7	26.05.2025	1307	<0.01	
8	27.05.2025	1377	0.12	

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
-----------	---

****End of the Report****

B. S. B.
Analysed By
Brunda.B
Chemist

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



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AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

Address: CD Yellappa S/o Dasappa Galemmanagudi Village near welcome board Hanumahalli post
Tq: Hospet Di: Vijayanagara



AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

Address: CD Yellappa S/o Dasappa Galemmanagudi Village near welcome board Hanumahalli post

Tq: Hospet Di: Vijayanagara





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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : MAY-2025
Location : A5-G Nagalapura Village
Duration of Monitoring : 24 Hour
Report Issue Date : 05.06.2025
Report Number : GEMS/BMMIL/ NAAQ /2025-26/365

RESULTS

Parameters			PM10 [µg/m ³]		PM2.5 [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Received Sample	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	699	42.15	100	11.01	60	12.24	80	14.71	80
06.05.2025	07.05.2025	729	51.64		9.63		13.54		15.39	
12.05.2025	13.05.2025	931	38.29		14.65		10.94		11.49	
13.05.2025	14.05.2025	974	44.61		8.79		8.22		10.95	
22.05.2025	23.05.2025	1182	41.35		12.74		10.6		13.97	
23.05.2025	24.05.2025	1268	41.26		8.53		8.93		11.48	
26.05.2025	27.05.2025	1308	31.58		10.57		13.37		15.17	
27.05.2025	28.05.2025	1378	32.42		11.48		10.74		12.43	
Average			40.41		10.93		11.07		13.20	

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 MINI
3	Serial No	R.D.S. / 198-C-21	PM2.5 / PM10 Sampler / 527-F-2024
4	Calibration Date	08.07.2024	23.09.2024
5	Calibration Due Date	07.07.2025	22.09.2025

INFERENCE

As per NAAQMS Standards (2009).

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

****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A5- G Nagalapura Village**
Duration of Monitoring : 1 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMM/NAAQ/2025-26/365**

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	699	<0.01	4.0
2	06.05.2025	729	<0.01	
3	12.05.2025	931	0.10	
4	13.05.2025	974	<0.01	
5	22.05.2025	1182	<0.01	
6	23.05.2025	1268	<0.01	
7	26.05.2025	1308	<0.01	
8	27.05.2025	1378	<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-CO
3	Serial No	180983821
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

****End of the Report****

B. B.
Analysed By
Brunda.B
Chemist

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



Note:

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AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

Address: B Manjunath S/o. B Hemanna G Nagalapura Hospet Tq Di : Vijayanagara Near 2nd ward Bus stand
Nagalapura



AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

Address: B Manjunath S/o. B Hemanna G Nagalapura Hospet Tq Di : Vijayanagara Near 2nd ward Bus stand
Nagalapura





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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
 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 : MAY-2025
 Location : A6-Gunda Tanda Village
 Duration of Monitoring : 24 Hour
 Report Issue Date : 05.06.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/366

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Received Sample	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
05.05.2025	06.05.2025	700	31.57	100	9.50	60	11.1	80	14.80	80
06.05.2025	07.05.2025	730	36.68		9.94		7.75		9.60	
12.05.2025	13.05.2025	932	51.23		13.76		10.83		11.80	
13.05.2025	14.05.2025	975	47.03		15.63		10.52		11.37	
22.05.2025	23.05.2025	1183	42.10		13.81		8.15		9.40	
23.05.2025	24.05.2025	1269	33.30		11.62		10.48		11.81	
26.05.2025	27.05.2025	1309	40.72		14.45		12.24		13.62	
27.05.2025	28.05.2025	1379	47.11		11.82		8.16		9.70	
Average			41.22		12.57		9.90		11.51	

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 / 453-A-24
4	Calibration Date	08.07.2024	01.05.2024
5	Calibration Due Date	07.07.2025	30.04.2025

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

****End of the Report****

Br B
 Analysed By
 Brunda.B
 Chemist

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

Note:

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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : **MAY-2025**
Location : **A6-Gunda Tanda Village**
Duration of Monitoring : 1 Hour
Report Issued Date : **05.06.2025**
Report Number : **GEMS/BMM/NAAQ/2025-26/366**

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	05.05.2025	700	<0.01	4.0
2	06.05.2025	730	<0.01	
3	12.05.2025	932	<0.01	
4	13.05.2025	975	<0.01	
5	22.05.2025	1183	<0.01	
6	23.05.2025	1269	<0.01	
7	26.05.2025	1309	<0.01	
8	27.05.2025	1379	<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-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
-----------	---

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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

Location: BMM Quatre's
Gunda Thanda



AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's
Gunda Thanda





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ANNEXURE-07
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	:	REF:LOI/STORES/25-26 DATE:02.04.2025
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)
5	Month	:	MAY-2025 (1 st Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4) 1999 RA 2014
9	Report Issued Date	:	05.06.2025
10	Report Number	:	GEMS/BMM/FM/2025-26/420

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-1						
1.	Main Canteen	811	08.05.2025	09.05.2025	607.62	2000
2.	Near Iron Ore Bottom Hopper	809	08.05.2025	09.05.2025	802.88	2000
3.	Iron Ore Screen	810	08.05.2025	09.05.2025	1600.14	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	812	08.05.2025	09.05.2025	1653.94	2000
5.	Annual Cooler Pellet Discharge bin	815	08.05.2025	09.05.2025	935.98	2000
6.	Pellet Stock Yard	845	09.05.2025	10.05.2025	409.27	2000
III. Sponge Iron Division-1 (kiln 1 & 2)						
7.	Control Room SID-1	860	10.05.2025	11.05.2025	466.41	2000
8.	Near Product bin	861	10.05.2025	11.05.2025	1650.86	2000
9.	Coal Feeding Area	862	10.05.2025	11.05.2025	542.11	2000
IV. Induction Furnace & Rolling Mill – 1						
10.	IF Office	846	09.05.2025	10.05.2025	1904.09	2000
11.	TMT Stock Yard	847	09.05.2025	10.05.2025	899.67	2000
12.	RML Gasifier	848	09.05.2025	10.05.2025	798.13	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	863	10.05.2025	11.05.2025	589.59	2000
14.	25 MW ACC	918	12.05.2025	13.05.2025	257.15	2000
VI. Site Services						
15.	PGP- coal handling system	849	09.05.2025	10.05.2025	726.35	2000
16.	IF Slag Crusher	864	10.05.2025	11.05.2025	539.32	2000
17.	Main Gate	919	12.05.2025	13.05.2025	473.14	2000
18.	Fly ash Dump	771	07.05.2025	08.05.2025	610.06	2000

Note: SPM- Suspended Particulate matter. ($\mu\text{g}/\text{m}^3$), 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	02.06.2025

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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Website : www.globalmining.in

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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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)
5	Month	: MAY-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	: 05.06.2025
10	Report Number	: GEMS/BMM/FM/2025-26/544

RESULTS

Sl. NO.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-1						
1.	Main Canteen	1173	22.05.2025	23.05.2025	1303.38	2000
2.	Near Iron Ore Bottom Hopper	1171	22.05.2025	23.05.2025	361.30	2000
3.	Iron Ore Screen	1172	22.05.2025	23.05.2025	536.83	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	1174	22.05.2025	23.05.2025	234.32	2000
5.	Annual Cooler Pellet Discharge bin	1175	22.05.2025	23.05.2025	495.53	2000
6.	Pellet Stock Yard	1299	26.05.2025	27.05.2025	623.09	2000
III. Sponge Iron Division-1(kiln 1 & 2)						
7.	Control Room SID-I	1365	27.05.2025	28.05.2025	428.79	2000
8.	Near Product bin	1366	27.05.2025	28.05.2025	952.11	2000
9.	Coal Feeding Area	1367	27.05.2025	28.05.2025	727.80	2000
IV. Induction Furnace & Rolling Mill						
10.	IF Office	1300	26.05.2025	27.05.2025	462.69	2000
11.	TMT Stock Yard	1301	26.05.2025	27.05.2025	275.71	2000
12.	RML Gasifier	1302	26.05.2025	27.05.2025	376.04	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	1368	27.05.2025	28.05.2025	442.54	2000
14.	25 MW ACC	1445	28.05.2025	29.05.2025	202.08	2000
VI. Site Services						
15.	PGP- Coal handling system	1303	26.05.2025	27.05.2025	276.98	2000
16.	IF Slag Crusher	1369	27.05.2025	28.05.2025	506.85	2000
17.	Main Gate	1446	28.05.2025	29.05.2025	263.62	2000
18.	Fly ash Dump	1256	23.05.2025	24.05.2025	422.31	2000

Note: SPM - Suspended Particulate matter ($\mu\text{g}/\text{m}^3$), 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 Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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Website : www.globalmining.in

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 | : | REF:LOI/STORES/25-26 DATE:02.04.2025 |
| 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 | : | MAY-2025(1st Fort Night) |
| 6 | Discipline | : | Chemical |
| 7 | Group | : | Atmospheric Pollution |
| 8 | Method adopted | : | IS 5182 (Part 4): 1999 RA 2014 |
| 9 | Report Issued Date | : | 05.06.2025 |
| 10 | Report Number | : | GEMS/BMM/FM/2025-26/494 |

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
Blast Furnace						
1.	RMHS	920	12.05.2025	13.05.2025	424.73	2000
2.	Stock House	921	12.05.2025	13.05.2025	1829.63	2000
3.	Gas Network Area	922	12.05.2025	13.05.2025	690.28	2000
4.	Blower Area	961	13.05.2025	14.05.2025	811.12	2000
5.	Gas Cleaning plant (GCP)	962	13.05.2025	14.05.2025	1223.83	2000
6.	Stove Area	963	13.05.2025	14.05.2025	395.65	2000
7.	Control ROOM (CR)	998	14.05.2025	15.05.2025	328.97	2000
8.	Pig Costing Machine (PCM)	964	13.05.2025	14.05.2025	363.15	2000
9.	Slag Granulation Plant (SGP)	965	13.05.2025	14.05.2025	415.76	2000
10.	Cost House Area	999	14.05.2025	15.05.2025	1797.71	2000
SMS Area						
1.	Stock House/Vibro Feeders	1000	14.05.2025	15.05.2025	465.98	2000
2.	Ladle Tapping	1001	14.05.2025	15.05.2025	653.31	2000
3.	Slag pouring Area	1002	14.05.2025	15.05.2025	810.84	2000
MBM						
1.	Near Re-Heating Furnace	1038	15.05.2025	16.05.2025	192.38	2000

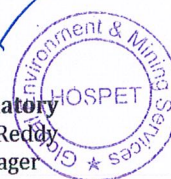
Note: SPM -Suspended Particulate matter ($\mu\text{g}/\text{m}^3$), **INFERENCE:** The Measured Values are within the limits.

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 Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-10
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	:	REF:LOI/STORES/25-26 DATE:02.04.2025
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	:	MAY-2025(1st Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	05.06.2025
10	Report Number	:	GEMS/BMM/FM/2025-26/311

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-II						
1.	Ball Mill Area (Zero Meter)	625	02.05.2025	03.05.2025	670.11	2000
2.	Near Cone Crusher	627	02.05.2025	03.05.2025	778.65	2000
3.	Concentrate Thickner	626	02.05.2025	03.05.2025	1699.83	2000
II. Pellet Plant						
4.	PR-6	628	02.05.2025	03.05.2025	616.72	2000
5.	Annual Cooler Pellet Discharge bin	629	02.05.2025	03.05.2025	634.17	2000
6.	Additive Grinding Building	639	03.05.2025	04.05.2025	777.45	2000
III. Sponge Iron Division -2 (Kiln 3 & 4)						
7.	Control room	640	03.05.2025	04.05.2025	391.01	2000
8.	Near Weigh bridge (dispatch)	686	05.05.2025	06.05.2025	1506.40	2000
9.	Pellet Storage bin	643	03.05.2025	04.05.2025	1705.42	2000
10.	Transfer House area	641	03.05.2025	04.05.2025	729.70	2000
11.	Production Separation Bin-PSB	642	03.05.2025	04.05.2025	625.70	2000
IV. Sponge Iron Division -3 (Kiln 5 & 6)						
12.	Near Control room	687	05.05.2025	06.05.2025	960.03	2000
13.	Near Coal Crusher	689	05.05.2025	06.05.2025	1924.95	2000
14.	Near Product bin	688	05.05.2025	06.05.2025	1740.97	2000
15.	Coal Dryer	717	06.05.2025	07.05.2025	604.12	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	690	05.05.2025	06.05.2025	545.26	2000
17.	Monsoon Shed (CPU)	718	06.05.2025	07.05.2025	620.34	2000
18.	MCC Room (2 nd Gate)	719	06.05.2025	07.05.2025	546.01	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	720	06.05.2025	07.05.2025	542.59	2000
20.	2 nd gate weigh bridge Near Coal Screen	767	07.05.2025	08.05.2025	1841.55	2000
21.	CFBC boiler	716	06.05.2025	07.05.2025	784.19	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	768	07.05.2025	08.05.2025	476.84	2000
23.	Near Coal storage Shed	769	07.05.2025	08.05.2025	565.09	2000
24.	Dolochar Processing Area	770	07.05.2025	08.05.2025	625.37	2000

Note: SPM -Suspended Particulate matter ($\mu\text{g}/\text{m}^3$), 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 Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/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

****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Website : www.globalmining.in

ANNEXURE-11
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 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 : **MAY-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 : **05.06.2025**
- 10 Report Number : **GEMS/BMM/FM/2025-26/515**

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-II						
1.	Ball Mill Area (Zero Meter)	1056	16.05.2025	17.05.2025	252.61	2000
2.	Near Cone Crusher	1058	16.05.2025	17.05.2025	454.31	2000
3.	Concentrate Thickner	1057	16.05.2025	17.05.2025	342.50	2000
II. Pellet Plant-I						
4.	PR-6	1059	16.05.2025	17.05.2025	482.66	2000
5.	Annual Cooler Pellet Discharge bin	1060	16.05.2025	17.05.2025	1220.24	2000
6.	Additive Grinding Building	1079	17.05.2025	18.05.2025	562.56	2000
III. Sponge Iron Division -2 (Kiln 3&4)						
7.	Control room	1080	17.05.2025	18.05.2025	888.43	2000
8.	Near Weigh bridge (dispatch)	1109	19.05.2025	20.05.2025	799.49	2000
9.	Pellet Storage bin	1087	17.05.2025	18.05.2025	844.11	2000
10.	Transfer House area	1085	17.05.2025	18.05.2025	1792.17	2000
11.	Production Separation Bin-PSB	1086	17.05.2025	18.05.2025	616.25	2000
IV. Sponge Iron Division -2 (Kiln 5&6)						
12.	Near Control room	1110	19.05.2025	20.05.2025	947.64	2000
13.	Near Coal Crusher	1112	19.05.2025	20.05.2025	901.89	2000
14.	Near Product bin	1111	19.05.2025	20.05.2025	864.44	2000
15.	Coal Drier	1154	21.05.2025	22.05.2025	368.65	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	1113	19.05.2025	20.05.2025	419.55	2000
17.	Monsoon Shed (CPU)	1155	21.05.2025	22.05.2025	177.90	2000
18.	MCC Room (2 nd Gate)	1156	21.05.2025	22.05.2025	233.29	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	1157	21.05.2025	22.05.2025	253.27	2000
20.	2 nd gate weigh bridge Near Coal Screen	1252	23.05.2025	24.05.2025	720.83	2000
21.	CFBC boiler	1158	21.05.2025	22.05.2025	195.27	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	1253	23.05.2025	24.05.2025	559.26	2000
23.	Near Coal storage Shed	1254	23.05.2025	24.05.2025	640.95	2000
24.	CPP Dolochar Process Area	1255	23.05.2025	24.05.2025	332.15	2000

Note: SPM -Suspended Particulate matter ($\mu\text{g}/\text{m}^3$), 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 Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/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

****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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ANNEXURE-12
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 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 : **MAY-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 : **05.06.2025**
- 10 Report Number : **GEMS/BMM/FM/2025-26/681**

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
Blast Furnace						
1.	RMHS	1447	28.05.2025	29.05.2025	368.67	2000
2.	Stock House	1448	28.05.2025	29.05.2025	950.28	2000
3.	Gas Network Area	1449	28.05.2025	29.05.2025	421.94	2000
4.	Blower Area	1470	29.05.2025	30.05.2025	409.82	2000
5.	Gas Cleaning plant (GCP)	1471	29.05.2025	30.05.2025	899.07	2000
6.	Stove Area	1472	29.05.2025	30.05.2025	511.26	2000
7.	Control ROOM (CR)	1473	29.05.2025	30.05.2025	234.44	2000
8.	Pig Costing Machine (PCM)	1469	29.05.2025	30.05.2025	857.24	2000
9.	Slag Granulation Plant (SGP)	1486	30.05.2025	31.05.2025	698.84	2000
10.	Cost House Area	1469	30.05.2025	31.05.2025	1814.05	2000
SMS Area						
1.	Stock House/Vibro Feeders	1487	30.05.2025	31.05.2025	955.29	2000
2.	Ladle Tapping	1488	30.05.2025	31.05.2025	586.12	2000
3.	Slag pouring Area	1489	30.05.2025	31.05.2025	852.55	2000
MBM						
1.	Near Re-Heating Furnace	1494	31.05.2025	31.05.2025	753.06	2000

Note: SPM -Suspended Particulate matter ($\mu\text{g}/\text{m}^3$), 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 Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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ANNEXURE-13
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	:	REF:LOI/STORES/25-26 DATE:02.04.2025 - 450000125
3	Sample collected by	:	GLOBAL Environment & Mining Services, Hosapete
4	Particulars of sample collected	:	Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	:	Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	Pellet Plant-1 ESP
10	Month of Sampling	:	MAY-2025
11	Date of Sample Received	:	10.05.2025
12	Date of Sample Analysis	:	12.05.2025
13	Date of Sample Analysis completion	:	12.05.2025
14	Report Issued Date	:	05.06.2025
15	Report Number	:	GEMS/BMMIL/STACK/2025-26/440

Stack Details

1	Fuel Used	Coal & furnace oil
2	Stack Height (mtr)	100.0
3	Stack Diameter (mtr)	4.4

Emission Details

Sl. No.	Parameters	Method	Unit	Results		Permissible Limit
				10.05.2025	-	
	Date of Monitoring Sample Code			865		
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	31	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	58		-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.21		-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	339747		-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	305352		-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	30.74		50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	205.0		NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	36.0		NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.014		NS

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-14
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 | : | REF:LOI/STORES/25-26 DATE:02.04.2025 |
| 3 | Sample collected by | : | GLOBAL Environment & Mining Services, Hosapete |
| 4 | Particulars of sample collected | : | Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308 |
| 5 | Instrument Details | : | Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : | Chemical |
| 7 | Group | : | Atmospheric Pollution |
| 8 | Sample Type | : | Stack Monitoring |
| 9 | Sampling Location | : | 2X100 TPD Sponge iron plant Kiln 1 & 2 |
| 10 | Month of Sampling | : | MAY-2025 |
| 11 | Date of Sample Received | : | 09.05.2025&28.05.2025 |
| 12 | Date of Sample Analysis | : | 10.05.2025&29.05.2025 |
| 13 | Date of Sample Analysis completion | : | 10.05.2025&29.05.2025 |
| 14 | Report Issued Date | : | 05.06.2025 |
| 15 | Report Number | : | GEMS/BMMIL/STACK/2025-26/434 |

Stack Details

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

Emission Details

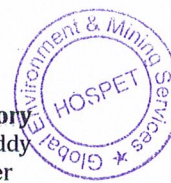
Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				09.05.2025	28.05.2025	
	Date of Monitoring			853	1450	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	168	174	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.06	7.27	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	79809	82280	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	53909	54623	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	23.41	16.79	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	229	257	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	44	54	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.105	0.256	1

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

****End of the Report****

Brunda B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-15
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(1st Fort Night)**
- 10 Date of Sample Received : 08.05.2025
- 11 Date of Sample Analysis : 09.05.2025
- 12 Date of Sample Analysis completion : 09.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/423**

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/Nm ³	KSPCB Std mg/Nm ³
Induction Furnace 1 & 2											
1	Induction Furnace 1	08.05.2025	818	Electric Power	33	39	5.68	30	1.2	6.65	150
2	Induction Furnace 2	08.05.2025	812		34	41	5.21	30	1.3	12.24	150

Sl. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Induction Furnance 1	23123	21958	-
2	Induction Furnance 2	24883	23466	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Br B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-16
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services, Hosapete
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Rolling Mill Reheating furnace
10	Month of Sampling	: MAY-2025
11	Date of Sample Received	: 03.05.2025&29.05.2025
12	Date of Sample Analysis	: 05.05.2025&30.05.2025
13	Date of Sample Analysis completion	: 05.05.2025&30.05.2025
14	Report Issued Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/STACK/2025-26/325

Stack Details

1	Fuel Used	Coal
2	Stack Height (mtr)	30.0
3	Stack Diameter (mtr)	0.8

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
	Date of Monitoring Sample Code			03.05.2025	29.05.2025	
				648	1477	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	^o C	35	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	^o C	186	179	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	8.15	7.78	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	33199	31669	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	21449	20832	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	43.81	39.53	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	34	39	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	227	235	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.036	0.049	1

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-17
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **AFBC Boiler ESP (25 MW Power Plant)**
- 10 Month of Sampling : **MAY-2025**
- 11 Date of Sample Received : -
- 12 Date of Sample Analysis : -
- 13 Date of Sample Analysis completion : -
- 14 Report Issued Date : **05.06.2025**
- 15 Report Number : -

Stack Details

- 1 Fuel Used : Coal
- 2 Stack Height (mtr) : 65.0
- 3 Stack Diameter (mtr) : 2.5

Emission Details

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

Note: NS- Not Specified. RA: Reaffirmed,

****End of the Report****

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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ANNEXURE-18

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(1st Fort Night)
- 10 Date of Sample Received : 14.05.2025
- 11 Date of Sample Analysis : 15.05.2025
- 12 Date of Sample Analysis completion : 15.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/506

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant -I											
1	Iron Ore dump hopper	14.05.2025	1004	-	31	36	5.37	30	0.4	16.05	50
2	Iron Ore Screen bin	14.05.2025	1005	-	33	35	5.54	30	0.4	18.45	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore dump hopper	2429	2343	-
2	Iron Ore Screen bin	2505	2407	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brundha B
Analysed By
Brundha.B
Chemist

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



Note:

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Website : www.globalmining.in

ANNEXURE-19
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(1st Fort Night)**
- 10 Date of Sample Received : 15.05.2025
- 11 Date of Sample Analysis : 16.05.2025
- 12 Date of Sample Analysis completion : 16.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/513**

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
RMHS											
3	Screen, Coal Crusher (CPU)	15.05.2025	1039	-	30	42	5.23	35	1.5	29.89	50
4	Main Crusher	15.05.2025	1040	-	32	36	4.96	25	0.5	15.28	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	33254	31410	-
4	Main Crusher	3506	3369	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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ANNEXURE-20
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(1st Fort Night)
- 10 Date of Sample Received : 10.05.2025&12.05.2025
- 11 Date of Sample Analysis : 12.05.2025&13.05.2025
- 12 Date of Sample Analysis completion : 12.05.2025&13.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/441

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant -I											
5	AGB Main Bag Filter	10.05.2025	866	-	32	36	5.05	6.5	0.50	21.95	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	10.05.2025	867	-	33	38	5.13	3.0	0.30	18.77	50
7	Bentonite Powder bin top bag filter	10.05.2025	868	-	34	39	4.90	3.0	0.30	26.13	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	12.05.2025	924	-	31	39	5.27	7.0	0.50	33.13	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
5	AGB Main Bag Filter	3567	3427	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1306	1246	-
7	Bentonite Powder bin top bag filter	1247	1185	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3727	3549	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-21
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(1st Fort Night)
- 10 Date of Sample Received : 12.05.2025 & 13.05.2025
- 11 Date of Sample Analysis : 13.05.2025 & 14.05.2025
- 12 Date of Sample Analysis completion : 13.05.2025 & 14.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/481

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 100 TPD Sponge Iron Kiln 1 & 2											
10	Cooler-1 Discharge & Blending Chute	12.05.2025	925	---	34	37	5.47	30	1.20	28.86	50
11	Cooler-2 Discharge	12.05.2025	926	---	34	38	5.62	30	1.20	21.78	50
12	Intermediate Bin & Blending	13.05.2025	968	---	31	36	4.58	30	1.20	29.88	50
13	Product House	13.05.2025	969	---	33	37	5.87	30	1.20	27.59	50

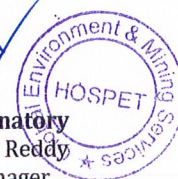
Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	22284	21303	-
11	Cooler-2 Discharge	22898	21811	-
12	Intermediate Bin & Blending	19745	19012	-
13	Product House	23891	22872	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-22
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(2ndFort Night)**
- 10 Date of Sample Received : 29.05.2025
- 11 Date of Sample Analysis : 30.05.2025
- 12 Date of Sample Analysis completion : 30.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/680**

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/Nm ³	KSPCB Std mg/Nm ³
Induction Furnance 1 & 2											
1	Induction Furnance 1	29.05.2025	1475	Electric	28	38	5.24	30	1.2	5.30	50
2	Induction Furnance 2	29.05.2025	1476	Power	29	42	5.07	30	1.3	10.14	50

Sl. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Induction Furnance 1	21342	20386	-
2	Induction Furnance 2	24219	22788	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Bg B
Analysed By
Brunda.B
Chemist

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



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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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(2nd Fort Night)**
- 10 Date of Sample Received : 30.05.2025
- 11 Date of Sample Analysis : 31.05.2025
- 12 Date of Sample Analysis completion : 31.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/684**

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant											
1	Iron Ore dump hopper	30.05.2025	1492	---	31	35	5.16	30	0.40	14.64	50
2	Iron Ore Screen bin	30.05.2025	1493	---	30	34	5.25	30	0.40	16.77	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore dump hopper	2335	2247	-
2	Iron Ore Screen bin	2377	2293	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Br & B
Analysed By
Brunda.B
Chemist

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

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ANNEXURE-24
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(2nd Fort Night)
- 10 Date of Sample Received : 31.05.2025
- 11 Date of Sample Analysis : 02.06.2025
- 12 Date of Sample Analysis completion : 02.06.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/686

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
RMHS											
3	Screen, Coal Crusher(CPU)	31.05.2025	1496	-	30	38	5.01	30	1.50	35.41	50
4	Main Crusher	31.05.2025	1497	-	31	36	5.12	25	0.50	13.50	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	31882	30425	-
4	Main Crusher	3617	3472	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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ANNEXURE-25
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(2nd Fort Night)**
- 10 Date of Sample Received : 19.05.2025&20.05.2025
- 11 Date of Sample Analysis : 20.05.2025&21.05.2025
- 12 Date of Sample Analysis completion : 20.05.2025&21.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/527**

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/N m ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant-I											
5	AGB Main Bag Filter	19.05.2025	1106	---	29	34	5.11	6.5	0.50	23.83	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	19.05.2025	1107	---	30	35	5.49	3.0	0.30	20.76	50
7	Bentonite Powder bin top bag filter	19.05.2025	1108	---	31	36	5.07	3.0	0.30	23.00	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	20.05.2025	1126	---	25	30	5.24	7.0	0.50	28.73	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
5	AGB Main Bag Filter	3616	3496	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1396	1344	-
7	Bentonite Powder bin top bag filter	1290	1237	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3706	3636	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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ANNEXURE-26

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(2nd Fort Night)**
- 10 Date of Sample Received : 27.05.2025&28.05.2025
- 11 Date of Sample Analysis : 28.05.2025&29.05.2025
- 12 Date of Sample Analysis completion : 28.05.2025&29.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/649**

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/N m ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 100 TPD Sponge Iron Kiln 1 & 2											
10	Cooler-1 Discharge & Blending Chute	27.05.2025	1373	---	28	34	5.63	30	1.20	22.67	50
11	Cooler-2 Discharge	28.05.2025	1451	---	30	34	5.69	30	1.20	27.56	50
12	Intermediate Bin & Blending	28.05.2025	1452	---	35	38	4.93	30	1.20	21.40	50
13	Product House	28.05.2025	1453	---	30	36	5.79	30	1.20	25.14	50

Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	22934	22145	-
11	Cooler-2 Discharge	23176	22385	-
12	Intermediate Bin & Blending	20078	19110	-
13	Product House	23589	22579	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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)

****End of the Report****

Brunda B
Analysed By
Brunda.B
Chemist

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

Note:

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Website : www.globalmining.in

ANNEXURE-27
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 | : REF:LOI/STORES/25-26 DATE:02.04.2025 |
| 3 | Sample collected by | : GLOBAL Environment & Mining Services |
| 4 | Particulars of sample collected | : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Pellet Plant-2 ESP |
| 10 | Month of Sampling | : MAY-2025 |
| 11 | Date of Sample Received | : 02.05.2025&17.05.2025 |
| 12 | Date of Sample Analysis | : 03.05.2025&19.05.2025 |
| 13 | Date Sample Analysis Completion | : 03.05.2025&19.05.2025 |
| 14 | Report Issued Date | : 05.06.2025 |
| 15 | Report Number | : GEMS/BMMIL/STACK/2025-26/312 |

Stack Details

- | | | |
|---|----------------------|------|
| 1 | Fuel Used | Coal |
| 2 | Stack Height (mtr) | 100 |
| 3 | Stack Diameter (mtr) | 4.4 |

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				02.05.2025	17.05.2025	
	Date of Monitoring					
	Sample Code			630	1088	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	69	73	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.09	6.03	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	333455	330212	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	290134	283953	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	33.29	34.22	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	284	312	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	88	91	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.018	0.015	1%

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-28
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 | : | REF:LOI/STORES/25-26 DATE:02.04.2025 |
| 3 | Sample collected by | : | GLOBAL Environment & Mining Services |
| 4 | Particulars of sample collected | : | Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308 |
| 5 | Instrument Details | : | Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : | Chemical |
| 7 | Group | : | Atmospheric Pollution |
| 8 | Sample Type | : | Stack Monitoring |
| 9 | Sampling Location | : | SID Axis 3&4 |
| 10 | Month of Sampling | : | MAY-2025 |
| 11 | Date of Sample Received | : | 05.05.2025&22.05.2025 |
| 12 | Date of Sample Analysis | : | 06.05.2025&23.05.2025 |
| 13 | Date Sample Analysis Completion | : | 06.05.2025&23.05.2025 |
| 14 | Report Issued Date | : | 05.06.2025 |
| 15 | Report Number | : | GEMS/BMMIL/STACK/2025-26/359 |

Stack Details

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

Emission Details

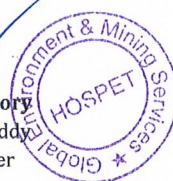
Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				05.05.2025	22.05.2025	
	Date of Monitoring			691	1170	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	127	129	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.84	6.73	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	174115	171353	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	129426	126471	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	32.50	28.58	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	374	349	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	25	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.084	0.079	1%

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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Website : www.globalmining.in

ANNEXURE-29
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 | : | REF:LOI/STORES/25-26 DATE:02.04.2025 |
| 3 | Sample collected by | : | GLOBAL Environment & Mining Services |
| 4 | Particulars of sample collected | : | Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308 |
| 5 | Instrument Details | : | Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : | Chemical |
| 7 | Group | : | Atmospheric Pollution |
| 8 | Sample Type | : | Stack Monitoring |
| 9 | Sampling Location | : | SID Axis 5&6 |
| 10 | Month of Sampling | : | MAY-2025 |
| 11 | Date of Sample Received | : | 06.05.2025&22.05.2025 |
| 12 | Date of Sample Analysis | : | 07.05.2025&23.05.2025 |
| 13 | Date Sample Analysis Completion | : | 07.05.2025&23.05.2025 |
| 14 | Report Issued Date | : | 05.06.2025 |
| 15 | Report Number | : | GEMS/BMMIL/STACK/2025-26/373 |

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				06.05.2025	22.05.2025	
	Date of Monitoring					
	Sample Code			721	1169	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	134	131	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.98	7.10	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	177647	180614	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	129865	132507	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	35.66	33.52	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	868	759	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	51	49	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.074	0.086	1%

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

****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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Website : www.globalmining.in

ANNEXURE-30
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: 1X70 MW-CFBC Boiler ESP
10	Month of Sampling	: MAY-2025
11	Date of Sample Received	: 07.05.2025 & 23.05.2025
12	Date of Sample Analysis	: 08.05.2025 & 24.05.2025
13	Date Sample Analysis Completion	: 08.05.2025 & 24.05.2025
14	Report Issued Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/STACK/2025-26/392

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				07.05.2025	23.05.2025	
				772	1257	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	31	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	116	119	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.36	7.20	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	187413	183135	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	22614	138964	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.59	27.39	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	141	165	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	22	27	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.013	0.021	1%

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

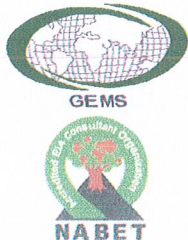
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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ANNEXURE-31
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: 2X70 MW CFBC Boiler ESP
10	Month of Sampling	: MAY-2025
11	Date of Sample Received	: 08.05.2025&27.05.2025
12	Date of Sample Analysis	: 09.05.2025&28.05.2025
13	Date Sample Analysis Completion	: 09.05.2025&28.05.2025
14	Report Issued Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/STACK/2025-26/421

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				08.05.2025	27.05.2025	
	Date of Monitoring					
	Sample Code			816	1370	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	121	126	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.27	6.81	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	1134918	1232860	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	854776	919813	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	35.23	32.15	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	49	61	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	54	335	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.701	0.018	NS

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

End of the Report

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-32
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: SMS
10	Month of Sampling	: MAY-2025
11	Date of Sample Received	: 12.05.2025&30.05.2025
12	Date of Sample Analysis	: 13.05.2025&31.05.2025
13	Date Sample Analysis Completion	: 13.05.2025&31.05.2025
14	Report Issued Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/STACK/2025-26/479

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	86
3	Stack Diameter (mtr)	2.4

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				12.05.2025	30.05.2025	
				923	1490	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	91	84	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.32	7.50	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	119253	122113	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	97399	101367	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	40.05	41.37	50

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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ANNEXURE-33
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Barmill
10	Month of Sampling	: MAY-2025
11	Date of Sample Received	: 13.05.2025&30.05.2025
12	Date of Sample Analysis	: 14.05.2025&31.05.2025
13	Date Sample Analysis Completion	: 14.05.2025&31.05.2025
14	Report Issued Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/STACK/2025-26/495

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	87
3	Stack Diameter (mtr)	3.0

Emission Details

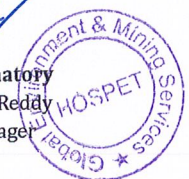
Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 ST Fort Night	2 nd Fort Night	
				13.05.2025	30.05.2025	
				966	1491	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	171	178	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.54	7.76	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	191888	197438	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	128654	129960	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	43.61	44.69	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	494	384	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	54	49	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.701	0.639	NS

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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Website : www.globalmining.in

ANNEXURE-34
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Blast Furnance -Stove Waste Gas**
- 10 Month of Sampling : **MAY-2025**
- 11 Date of Sample Received : 14.05.2025&31.05.2025
- 12 Date of Sample Analysis : 15.05.2025&02.06.2025
- 13 Date Sample Analysis Completion : 15.05.2025&02.06.2025
- 14 Report Issued Date : **05.06.2025**
- 15 Report Number : **GEMS/BMMIL/STACK/2025-26/506**

Stack Details

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

Emission Details

Sl. No	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
	Date of Monitoring Sample Code			14.05.2025 1003	31.05.2025 1495	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	166	162	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.88	7.08	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	112099	115379	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	76034	78854	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	23.00	26.67	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	94	86	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	26	21	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.508	0.471	<1%

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

****End of the Report****

Analyzed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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ANNEXURE-35
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(1st Fort Night)**
- 10 Date of Sample Received : 13.05.2025
- 11 Date of Sample Analysis : 14.05.2025
- 12 Date Sample Analysis Completion : 14.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/496**

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	Shut Down	-	---	-	-	-	30	1.20	-	50
2	Iron Ore Screening	13.05.2025	967	---	34	37	5.18	30	0.90	19.57	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	11854	11340	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-36

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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(1st Fort Night)
- 10 Date of Sample Received : 03.05.2025
- 11 Date of Sample Analysis : 05.05.2025
- 12 Date Sample Analysis Completion : 05.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/321

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant-II											
3	AGB main bag Filter	03.05.2025	644	---	33	36	5.15	6.5	0.5	25.58	50
4	Lime & Bentonite Powder bin top bag filter	03.05.2025	645	---	35	40	5.35	6.5	0.5	23.59	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	03.05.2025	643	---	36	41	5.54	20	0.5	30.81	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	AGB main bag Filter	3637	3499	-
4	Lime & Bentonite Powder bin top bag filter	3783	3585	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3916	3697	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-37
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: MAY-2025(1st Fort Night)
10	Date of Sample Received	: 03.05.2025,05.05.2025,06.05.2025&07.05.2025
11	Date of Sample Analysis	: 05.05.2025,06.05.2025,07.05.2025&08.05.2025
12	Date Sample Analysis Completion	: 05.05.2025,06.05.2025,07.05.2025&08.05.2025
13	Report Issued Date	: 05.06.2025
14	Report Number	: GEMS/BMMIL/STACK/2025-26/324

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 500 TPD Sponge Iron Kiln 1 & 2											
9	Cooler Discharge -1	03.05.2025	647	---	36	39	5.31	30	1.20	5.96	50
10	Cooler Discharge -2	05.05.2025	692	---	33	36	5.61	30	1.20	26.62	50
11	Coal stock house	05.05.2025	693	---	35	39	5.26	30	1.20	12.75	50
12	PSB 1 System-1	05.05.2025	694	---	35	40	5.40	30	1.20	32.42	50
13	PSB 1 System-2	05.05.2025	722	---	31	36	5.41	30	1.20	33.11	50
14	PSB 2 System-1 MCC	06.05.2025	723	---	34	39	5.53	30	1.20	27.77	50
15	PSB 1 System-2 Road	06.05.2025	724	---	35	41	5.74	30	1.20	29.35	50
16	Junction House Old & New	07.05.2025	773	---	33	38	5.83	30	1.20	30.97	50
17	Storage Bunker	07.05.2025	774	---	35	39	5.61	30	1.20	21.29	50
18	Dispatch	-	-	---	-	-	-	30	1.20	-	50

Sl. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
9	Cooler Discharge -1	21621	20545	-
10	Cooler Discharge -2	22860	21977	-
11	Coal stock house	21426	20351	-
12	PSB 1 System-1	22003	20816	-
13	PSB 1 System-2	22015	21178	-
14	PSB 2 System-1 MCC	22531	21432	-
15	PSB 1 System-2 Road	23377	22081	-
16	Junction House Old & New	23732	22674	-
17	Storage Bunker	22850	21733	-
18	Dispatch	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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

****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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ANNEXURE-38
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(1st Fort Night)
- 10 Date of Sample Received : 07.05.2025 ,08.05.2025&09.05.2025
- 11 Date of Sample Analysis : 08.05.2025,09.05.2025&10.05.2025
- 12 Date Sample Analysis Completion : 08.05.2025,09.05.2025&10.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/422


RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2X500 TPD Sponge Iron Kiln 3&4											
19	DE 3, Axis 3 CD	07.05.2025	766	---	36	39	5.48	30	1.20	33.95	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	08.05.2025	817	---	31	36	5.55	30	1.20	35.23	50
21	DE 8 & 12 I-Bin, (Stand By)	09.05.2025	850	---	31	37	5.69	30	1.90	31.45	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	09.05.2025	851	---	33	39	5.26	30	1.90	35.05	50
23	Coal Dryer	09.05.2025	852	---	34	42	5.86	30	1.20	36.56	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
19	DE 3, Axis 3 CD	22316	21208	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	22614	21717	-
21	DE 8 & 12 I-Bin, (Stand By)	58126	55788	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	53674	51036	-
23	Coal Dryer	23852	22449	-

INFERENCE: The Measured Values are within the limits.

End of the Report


Analysed By
Brunda.B
Chemist


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

ANNEXURE-39
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : MAY-2025(2nd Fort Night)
- 10 Date of Sample Received : 29.05.2025
- 11 Date of Sample Analysis : 30.05.2025
- 12 Date Sample Analysis Completion : 30.05.2025
- 13 Report Issued Date : 05.06.2025
- 14 Report Number : GEMS/BMMIL/STACK/2025-26/680

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	Shut down	-	---	-	-	-	-	-	-	50
2	Iron Ore Screening	29.05.2025	1474	---	28	33	5.04	30	0.90	20.33	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	11554	11184	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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.

****End of the Report****

Brunda B
Analysed By
Brunda.B
Chemist

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



Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7Days.
3. 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.
4. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

ANNEXURE-40

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	: REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: MAY-2025(2ndFort Night)
10	Date of Sample Received	: 17.05.2025
11	Date of Sample Analysis	: 19.05.2025
12	Date Sample Analysis Completion	: 19.05.2025
13	Report Issued Date	: 05.06.2025
14	Report Number	: GEMS/BMMIL/STACK/2025-26/525

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant											
3	AGB main bag Filter	17.05.2025	1090	---	30	35	5.40	6.5	0.50	23.47	50
4	Lime & Bentonite Powder bin top bag filter	17.05.2025	1089	---	32	37	5.21	6.5	0.50	25.73	50
5	AGB De dusting Bag Filter	-	-	---	-	-	-	6.0	0.60	-	50
6	Powder Coal main bag filter	-	-	---	-	-	-	6.0	0.60	-	50
7	RP-6 Conveyor bag Filter	-	-	---	-	-	-	6.0	0.30	-	50
8	Pellet discharge bin bag filter	17.05.2025	1091	---	33	38	5.61	2.0	0.50	27.60	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /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	3963	3779	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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.

****End of the Report****

Brunda B
Analysed By
Brunda.B
Chemist

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



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Website : www.globalmining.in

ANNEXURE-41
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	:	REF:LOI/STORES/25-26 DATE:02.04.2025
3	Sample collected by	:	GLOBAL Environment & Mining Services
4	Particulars of sample collected	:	Vayubodhak/ VBSS2
		:	Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	:	Calibration Date: 25.04.2025
		:	Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Month of Sampling	:	MAY-2025(2nd Fort Night)
10	Date of Sample Received	:	20.05.2025, 21.05.2025 & 22.05.2025
11	Date of Sample Analysis	:	21.05.2025, 22.05.2025 & 23.05.2025
12	Date Sample Analysis Completion	:	21.05.2025, 22.05.2025 & 23.05.2025
13	Report Issued Date	:	05.06.2025
14	Report Number	:	GEMS/BMMIL/STACK/2025-26/528

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/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 500 TPD Sponge Iron Kiln 1 & 2											
9	Cooler Discharge -1	20.05.2025	1127	Coal	26	31	5.20	30	1.2	21.65	50
10	Cooler Discharge -2	20.05.2025	1128	Coal	27	32	5.73	30	1.2	11.81	50
11	Coal stock house	20.05.2025	1129	Coal	28	33	4.96	30	1.2	28.59	50
12	PSB 1 System-1	21.05.2025	1161	Coal	26	31	5.49	30	1.2	30.49	50
13	PSB 1 System-2	21.05.2025	1162	Coal	26	32	5.00	30	1.2	24.49	50
14	PSB 2 System-1 MCC	21.05.2025	1163	Coal	28	34	5.59	30	1.2	30.26	50
15	PSB 1 System-2 Road	21.05.2025	1164	Coal	29	35	5.93	30	1.2	26.79	50
16	Junction House Old & New	22.05.2025	1187	Coal	28	35	5.74	30	1.2	30.79	50
17	Storage Bunker	22.05.2025	1188	Coal	29	34	5.56	30	1.2	20.20	50
18	Dispatch	-	-	---	-	-	-	30	1.2	-	50

Sl. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
9	Cooler Discharge -1	21188	20707	-
10	Cooler Discharge -2	23350	22700	-
11	Coal stock house	20184	19548	-
12	PSB 1 System-1	22360	21838	-
13	PSB 1 System-2	20349	19798	-
14	PSB 2 System-1 MCC	20400	19702	-
15	PSB 1 System-2 Road	20115	19353	-
16	Junction House Old & New	18772	17971	-
17	Storage Bunker	18161	17490	-
18	Dispatch	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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.

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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ANNEXURE-42
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **MAY-2025(2nd Fort Night)**
- 10 Date of Sample Received : 23.05.2025&27.05.2025
- 11 Date of Sample Analysis : 24.05.2025&28.05.2025
- 12 Date Sample Analysis Completion : 24.05.2025&28.05.2025
- 13 Report Issued Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STACK/2025-26/592**

RESULTS

Sl. NO	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2X500 TPD Sponge Iron Kiln 3&4											
19	DE 3, Axis 3 CD	23.05.2025	1258	---	29	35	5.35	30	1.20	24.72	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	23.05.2025	1259	---	30	37	5.67	30	1.20	32.26	50
21	DE 8 & 12 I-Bin, (Stand By)	23.05.2025	1260	---	31	36	5.92	30	1.90	28.58	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	27.05.2025	1371	---	28	34	5.40	30	1.90	31.43	50
23	Coal Dryer	27.05.2025	1372	---	29	38	5.59	30	1.20	37.68	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
19	DE 3, Axis 3 CD	18079	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	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	50225	48290	-
23	Coal Dryer	20808	19856	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	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.

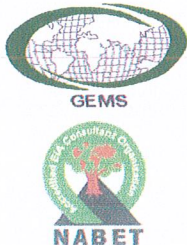
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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Website : www.globalmining.in

ANNEXURE-43
GEMS-LD/TF/08/01

NOISE LEVEL MONITORING REPORT

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
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: Q679952
Instrument Details : Date of Calibration:16.12.2024
Calibration Due Date:15.12.2025
Month : MAY-2025
Report Issue Date : 05.06.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : GEMS/BMMIL/NOISE/2025-26/313

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	02.05.2025	50.0	54.1	75
2	Near ATM	02.05.2025	48.2	55.0	75
3	Transit House	03.05.2025	54.8	63.4	75
4	CAAQMS Station	03.05.2025	49.0	54.8	75
5	Gunda Road	05.05.2025	52.6	62.8	75
6	Gunda Railway Station	05.05.2025	48.2	68.1	75
7	Bagging Shed	06.05.2025	61.4	66.0	75
8	Railway Siding	06.05.2025	53.3	68.4	75
9	4th Gate	07.05.2025	49.9	57.2	75
10	Bricks Plant	07.05.2025	46.8	54.6	75
11	Kempuhalla (Wagon Tippler)	08.05.2025	51.8	63.5	75
12	Danapura Bridge	08.05.2025	58.2	68.1	75
13	2nd Gate	09.05.2025	47.6	58.6	75
14	Project Store	09.05.2025	43.5	53.8	75
15	Dispatch (Truck Parking Area)	10.05.2025	62.4	71.6	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. **End of the Report**
------------------	---

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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Website : www.globalmining.in

ANNEXURE-44

GEMS-LD/TF/08/01

NOISE LEVEL MONITORING REPORT

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
 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: Q679952
 Instrument Details : Date of Calibration:16.12.2024
 Calibration Due Date:15.12.2025
 Month : **MAY-2025**
 Report Issue Date : **05.06.2025**
 Method Adopted : IS 9989-1981 Reaffirmed 2014
 Report No : **GEMS/BMMIL/NOISE/2025-26/516**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	16.05.2025	47.6	54.8	75
2	Near ATM	16.05.2025	46.2	52.4	75
3	Transit House	17.05.2025	52.4	57.8	75
4	CAAQMS Station	17.05.2025	44.8	56.0	75
5	Gunda Road	19.05.2025	50.8	56.4	75
6	Gunda Railway Station	19.05.2025	50.0	57.8	75
7	Bagging Shed	20.05.2025	49.6	59.0	75
8	Railway Siding	20.05.2025	46.2	64.2	75
9	4th Gate	21.05.2025	49.5	56.8	75
10	Bricks Plant	21.05.2025	46.2	55.6	75
11	Kempuhalla (Wagon Tippler)	22.05.2025	53.2	56.9	75
12	Danapura Bridge	22.05.2025	60.4	68.2	75
13	2nd Gate	23.05.2025	52.8	59.8	75
14	Project Store	23.05.2025	45.8	54.6	75
15	Dispatch (Truck Parking Area)	23.05.2025	62.4	73.5	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.
------------------	---

****End of the Report****

Authorised Signatory
K. Ramakrishna Reddy
 Technical Manager



Note:

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ANNEXURE-45

GEMS-LD/TF/08/01

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : REF:LOI/STORES/25-26 DATE:02.04.2025
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 : MAY-2025
Report Issue Date : 05.06.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : GEMS/BMMIL/NOISE/2025-26/314

Sl. No	Location	Date of Monitoring	Noise Level dB (A)						
			Day Time			Standard	Night Time		
			Min	Max	Avg		Min	Max	Avg
1	Danapur Village	02.05.2025	49.9	53.2	51.05	55	36.2	40.2	38.22
2	Mariyammana Halli	05.05.2025	46.0	54.8	51.46		37.5	41.6	39.54
3	Hanumana Halli	03.05.2025	43.5	58.2	53.76		36.3	41.2	39.75
4	Galemmanagudi	06.05.2025	48.2	57.3	54.15		36.8	40.7	40.29
5	G.Nagalapura Village	07.05.2025	43.6	52.8	53.94		35.4	40.9	38.12
6	Gunda Tanda Village	08.05.2025	45.1	53.2	50.72		34.9	39.4	38.10

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.

End of the Report


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

NOISE: (AMBIENT STANDARDS)

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

Note:

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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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 870
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/445

Results

Sl. No.	Parameters	Protocol	Unit	Danapur Village (GW1)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.17	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2080	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1248	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	49.94	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	328.0	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	198.38	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	19.90	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	576.91	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	334.57	250max	1000 max

Note:

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ANNEXURE-46

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.36	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	13.55	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	482.5	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.14	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

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.

****End of the Report****

B9 2B
Analysed By
Brunda.B
Chemist

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

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 872
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/447

Results

Sl. No.	Parameters	Protocol	Unit	Hanumanahalli Village (GW2)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.58	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2930	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1758	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	239.42	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	389.0	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	68.67	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	38.72	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	742.56	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	497.71	250max	1000 max

Note:

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ANNEXURE-47

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.38	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	16.67	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	655.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.08	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-

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

INFERENCE

As per Standards IS: 10500:2012

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 873
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/448

Results

Sl. No.	Parameters	Protocol	Unit	Galemmana Gudi Village (GW3)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.76	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	μS/cm	2230	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1338	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	177.16	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	105.2	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	228.9	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	34.99	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	714.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	488.50	250max	1000 max

Note:

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ANNEXURE-48

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.34	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	19.17	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	437.5	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.15	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-

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

INFERENCE

As per Standards IS: 10500:2012

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

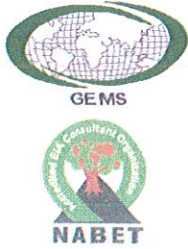
****End of the Report****

B. R. B.
Analysed By
Brunda.B
Chemist

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

Note:

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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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 871
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/446

Results

Sl. No.	Parameters	Protocol	Unit	Mariyamma naHalli Village (GW4)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.85	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1510	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	906	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	58.74	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	356.0	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	110.63	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	34.11	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	416.97	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	423.98	250max	1000 max

Note:

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GEMS

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ANNEXURE-49

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.23	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	15.82	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	450.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.15	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: GW4: Mariyammanahalli Village. NR-No relaxation**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.******End of the Report****

Brunda.B
Analysed By
 Brunda.B
 Chemist

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

**Note:**

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ANNEXURE-50
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 874
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/449

Results

Sl. No.	Parameters	Protocol	Unit	Gunda Thanda (GW5)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.87	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1200	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	720	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	132.74	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	96.59	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	45.78	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	23.08	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	209.44	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	105.99	250max	1000 max

Note:

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ANNEXURE-50

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.18	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	17.25	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	292.5	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.10	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

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.

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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ANNEXURE-51
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	: REF:LOI/STORES/25-26 DATE:02.04.2025 - 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	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 867
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/444

Results

Sl. No.	Parameters	Protocol	Unit	Gunda Village (GW6)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.95	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1710	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1026	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	143.16	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	194.83	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	48.83	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	51.76	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	335.10	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	317.06	250max	1000 max

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ANNEXURE-51

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.41	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	15.83	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	397.5	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.13	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Coli form count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-
22.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-

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

INFERENCE

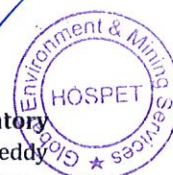
As per Standards IS: 10500:2012

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

****End of the Report****

B.R.B.
Analysed By
Brunda.B
Chemist

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



Note:

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ANNEXURE-52
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Water
8	Sample Type	: RO Drinking Water
9	Sample Code	: 876
10	Date of Sampling	: 10.05.2025
11	Sample Received	: 11.05.2025
12	Date of Analysis	: 12.05.2025
13	Date of Analysis Completion	: 17.05.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/RO/2025-26/451

Results

Sl. No.	Parameters	Protocol	Unit	RO Drinking Water	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.40	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	230	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	138	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	58.23	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	18.2	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	53.4	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	1.85	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	57.12	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	15.66	250max	1000 max

Note:

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Website : www.globalmining.in

ANNEXURE-52

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	BDL	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	1.08	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	32.5	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	0.00	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.09	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR
20.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21.	Total Residual chlorine	APHA 24th Edition-4500-Cl B:2023	mg/L	0.00	0.2	1.0
22.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.00	0.6	NR
23.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.04	NR
24.	Phenolic Compound as phenols	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	1.0	-
25.	Boron as B	APHA 24th Edition 4500BB: 2023	mg/L	BDL	0.4	1.0
26.	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: W6: R0 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.

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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Website : www.globalmining.in

ANNEXURE-53
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 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 : 10.05.2025
- 10 Sample Received : 11.05.2025
- 11 Date of Analysis : 12.05.2025
- 12 Date of Analysis Completion : 17.05.2025
- 13 Report Issue Date : **05.06.2025**
- 14 Report Number : **GEMS/BMMIL/STP/2025-26/452**

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
Sample code			-	877	878	879	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.36	7.52	7.63	6.5 to 8.5
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	14.0	10.0	8.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	4.0	8.0	6.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	19.65	44.00	39.31	<50
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	2.0	6.0	4.0	10
6.	Color	APHA 24th Editon -2120 C:2023	Hazen	5	5	10	-
7.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	BDL	-
8.	Phenolic Compound as phenols	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	BDL	-
9.	Ammonical Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	2.80	4.06	3.64	5
10.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	4.56	8.74	6.12	10
11.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/100ml	31	84	63	<100

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

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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ANNEXURE-54
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	: REF:LOI/STORES/25-26 DATE:02.04.2025
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	: Waste Water
9	Date of Sampling	: 10.05.2025
10	Sample Received	: 11.05.2025
11	Date of Analysis	: 12.05.2025
12	Date of Analysis Completion	: 17.05.2025
13	Report Issue Date	: 05.06.2025
14	Report Number	: GEMS/BMMIL/WW/2025-26/455

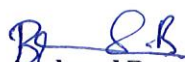
Results

Sl. No.	Parameters	Protocol	Unit	Results		As per KSPCB Std
				Neutralization Pit 70 MW Power Plant	Neutralization Pit 2x70 MW Power Plant	
				Sample Code		
				880	881	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.02	8.14	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	38.0	16.0	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	176.90	157.25	250
4.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	6.0	4.0	10

Note: BDL-Below detectable Limit.

INFERENCE: The Measured values are within the Limit.

****End of the Report****


Analysed By
Brunda.B
Chemist


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager


Note:

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ANNEXURE-55
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	:	REF:LOI/STORES/25-26 DATE:02.04.2025
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	:	10.05.2025
10	Sample Received	:	11.05.2025
11	Date of Analysis	:	12.05.2025
12	Date of Analysis Completion	:	17.05.2025
13	Report Issue Date	:	05.06.2025
14	Report Number	:	GEMS/SW/2025-26/457

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
		Sample code		882	883	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.69	7.64	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	0.00	0.00	3.0
3.	Fluorides as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.27	0.38	1.3
4.	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.2	5.6	>5.0
5.	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	<5	300
6.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
7.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
8.	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
9.	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-

INFERENCE: The measured values are within the Limit

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

ANNEXURE-56
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 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 : 10.05.2025
- 10 Sample Received : 11.05.2025
- 11 Date of Analysis : 12.05.2025
- 12 Date of Analysis Completion : 17.05.2025
- 13 Report Issue Date : 05.06.2025
- 14 Report Number : GEMS/SW/2025-26/459

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS - B
				KempuHalla Upstream	KempuHalla Downstream	
			Sample code	884	885	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.35	7.23	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	0.00	0.00	3.0
3.	Fluorides as F	APHA 24th Editin 4500 F D : 2023	mg/L	0.42	0.25	1.5
4.	Dissolved Oxygen	APHA 24th Editin 4500 O C:2023	mg/L	5.4	5.2	>5.0
5.	Color	APHA 24th Editon -2120 C:2023	Hazen	25	25	300
6.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
7.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
8.	Chromium (as Cr ⁶⁺)	APHA 24th Editon 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
9.	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	-

INFERENCE: The measured values are within the Limit

****End of the Report****

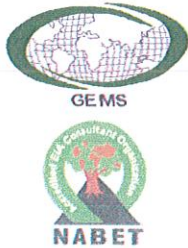
Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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ANNEXURE-57
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 : REF:LOI/STORES/25-26 DATE:02.04.2025
- 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/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 10.05.2025
- 10 Sample Received : 11.05.2025
- 11 Date of Analysis : 12.05.2025
- 12 Date of Analysis Completion : 17.05.2025
- 13 Report Issue Date : **05.06.2025**
14. Report Number : **GEMS/SW/2025-26/461**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
			Sample Code	886	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.32	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	3.0
3.	Fluorides as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.38	1.5
4.	Dissolved Oxygen	APHA 24th Edition 4500 O C: 2023	mg/L	5.4	>5.0
5.	Color	APHA 24th Edition -2120 C: 2023	Hazen	10	300
6.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05
7.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	0.005
8.	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3500 Cr-B: 2023	mg/L	BDL	1.0
9.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	440	-
10.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	16.0	-
11.	Total Coliform Organisms,				
	Total Coli forms	IS :1622:1981	MPN/100 ml	43	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.

****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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



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