



BMM Ispat Ltd.,

ENVIRONMENTAL MONITORING REPORT



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

AUGUST-2025

Prepared by



TC-16180

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.gemslp.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: 03.09.2025


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 **AUGUST-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 112 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 Vayubodhak/ VBSS2 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 41.26, 9.80, 10.43 & 11.79 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 39.17, 8.96, 10.45 & 14.28 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 40.14, 13.96, 9.38 & 15.14 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 38.29, 8.56, 11.16 & 14.01 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 35.92, 7.31, 10.74 & 12.36 $\mu\text{g}/\text{m}^3$ 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 34.84, 7.24, 7.84 & 9.90 $\mu\text{g}/\text{m}^3$ 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 161.01 $\mu\text{g}/\text{m}^3$, maximum value 1901.67 $\mu\text{g}/\text{m}^3$ and average value 795.59 $\mu\text{g}/\text{m}^3$. 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 4.88 mg/Nm^3 , Maximum Value 40.46 mg/Nm^3 & Average Value 25.98 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 (Lutron) The Day time noise level values were ranging between 42.8 to 72.5 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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e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : AUGUST-2025
Location : A1-Danapur Village
Duration of Monitoring : 24 Hour
Report Issued Date : 03.09.2025
Report Number : ULR-TC1618025000001756F

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
04.08.2025	05.08.2025	3438	47.65	100	9.01	60	08.69	80	09.15	80
05.08.2025	06.08.2025	3521	33.97		8.74		11.74		14.36	
11.08.2025	12.08.2025	3751	47.13		14.02		07.84		08.93	
12.08.2025	13.08.2025	3805	41.94		8.51		12.53		14.20	
18.08.2025	19.08.2025	3997	47.12		11.39		11.40		12.11	
19.08.2025	20.08.2025	4065	43.01		9.36		13.02		14.96	
28.08.2025	29.08.2025	4402	30.67		8.41		10.90		12.41	
29.08.2025	30.08.2025	4423	38.57		8.97		07.30		08.23	
Average			41.26		9.80		10.43		11.79	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Greentech instruments GTI-151N	Greentech instruments / GTI-131
3	Serial No	R.D.S. / 679-DTL-2023	PM2.5 / PM10 Sampler / 669-DTL-2023
4	Calibration Date	25.04.2025	25.04.2025
5	Calibration Due Date	24.04.2026	24.04.2026

INFERENCE

As per NAAQMS Standards (2009).

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

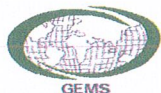
****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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



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Website : www.gemslp.in

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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyzer
 Month : AUGUST-2025
 Location : A1-Danapur Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMMIL/NAAQ/2025-26/1756


RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3438	<0.01	4.0
2	05.08.2025	3521	<0.01	
3	11.08.2025	3751	<0.01	
4	12.08.2025	3805	<0.01	
5	18.08.2025	3997	<0.01	
6	19.08.2025	4065	<0.01	
7	28.08.2025	4402	<0.01	
8	29.08.2025	4423	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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


 Authorized Signatory
 K. Ramakrishna Reddy
 Technical Manager

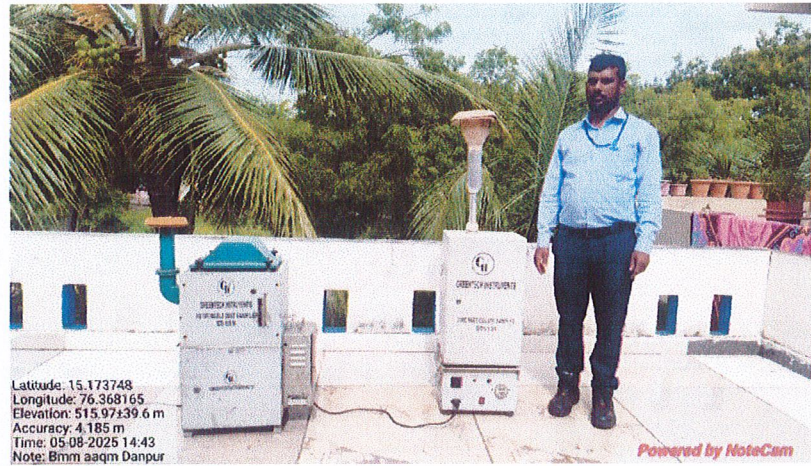


- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

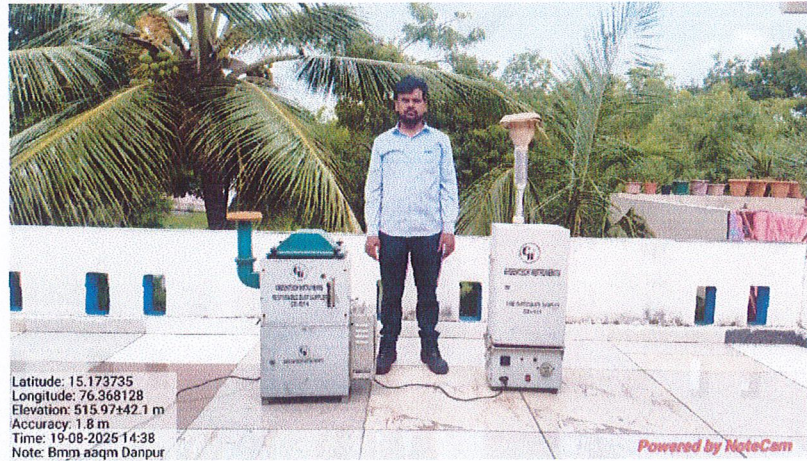
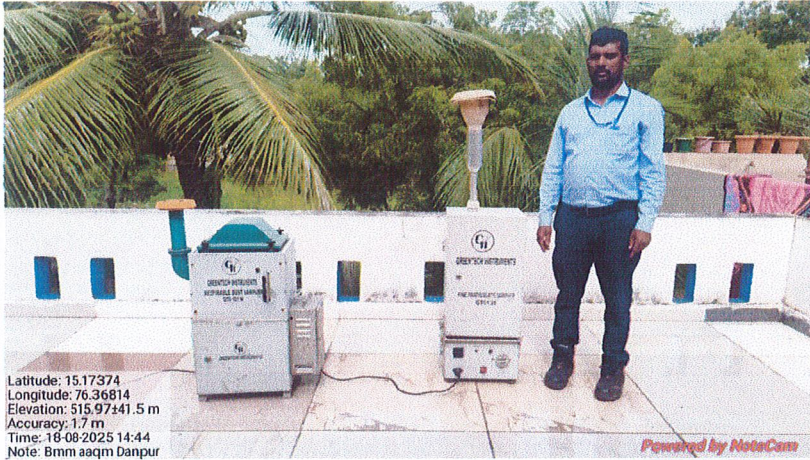
Address: T Kotresh S/o T Thyappa Vyasankere colony Danapur
Near VRM Hospital



AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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





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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : AUGUST-2025
Location : A2-Mariyammanahalli Village
Duration of Monitoring : 24 Hour
Report Issued Date : 03.09.2025
Report Number : ULR-TC1618025000001758F

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
04.08.2025	05.08.2025	3440	44.37	100	8.62	60	11.85	80	14.26	80
05.08.2025	06.08.2025	3523	31.10		6.68		11.20		12.41	
11.08.2025	12.08.2025	3753	48.47		9.89		08.14		15.67	
12.08.2025	13.08.2025	3807	40.23		8.04		14.16		15.48	
18.08.2025	19.08.2025	4008	42.61		12.58		07.11		14.59	
19.08.2025	20.08.2025	4067	44.98		14.20		06.87		15.72	
28.08.2025	29.08.2025	4404	27.84		5.48		13.89		14.83	
29.08.2025	30.08.2025	4425	33.75		6.15		10.40		11.28	
Average			39.17		8.96		10.45		14.28	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S. / 197-C-21	PM2.5 / PM10 Sampler / 182-DTH-2013
4	Calibration Date	24.07.2025	25.04.2025
5	Calibration Due Date	23.07.2026	24.04.2026

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

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

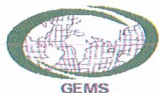
Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

- 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.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : AUGUST-2025
 Location : A2-Mariyammanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/1758

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3440	0.10	4.0
2	05.08.2025	3523	<0.01	
3	11.08.2025	3753	<0.01	
4	12.08.2025	3807	0.12	
5	18.08.2025	4008	<0.01	
6	19.08.2025	4067	<0.01	
7	28.08.2025	4404	0.10	
8	29.08.2025	4425	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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

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



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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : AUGUST-2025
Location : A3-Hanumanahalli Village
Duration of Monitoring : 24 Hour
Report Issued Date : 03.09.2025
Report Number : ULR-TC1618025000001757F

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
04.08.2025	05.08.2025	3439	51.18	100	10.49	60	12.01	80	16.92	80
05.08.2025	06.08.2025	3522	42.68		14.97		07.86		17.32	
11.08.2025	12.08.2025	3752	46.86		16.28		09.16		16.38	
12.08.2025	13.08.2025	3806	30.33		11.60		12.27		13.07	
18.08.2025	19.08.2025	4007	39.57		16.39		07.42		14.59	
19.08.2025	20.08.2025	4066	44.37		15.20		09.15		10.92	
28.08.2025	29.08.2025	4403	25.78		16.14		09.60		16.52	
29.08.2025	30.08.2025	4424	40.31		10.61		07.57		15.38	
Average			40.14		13.96		09.38		15.14	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Greentech instruments / GTI-151	Greentech instruments / GTI-131
3	Serial No	R.D.S. / 677-DTL-2023	PM2.5 / PM10 Sampler / 670-DTL-2023
4	Calibration Date	25.04.2025	25.04.2025
5	Calibration Due Date	24.04.2026	24.04.2026

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



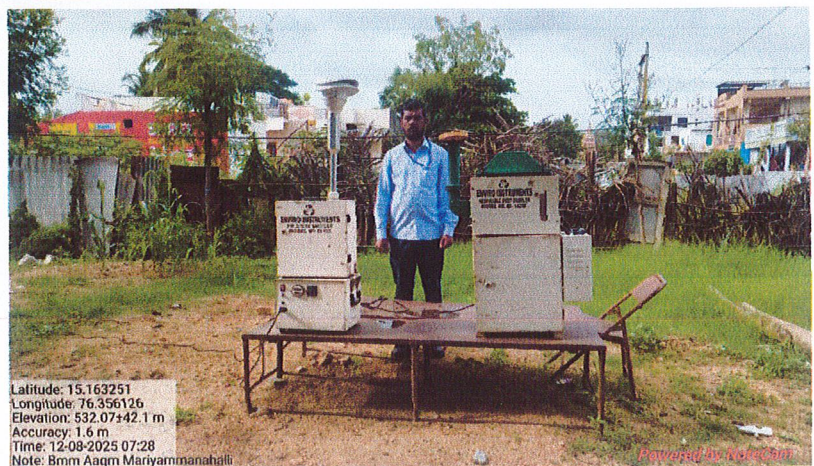
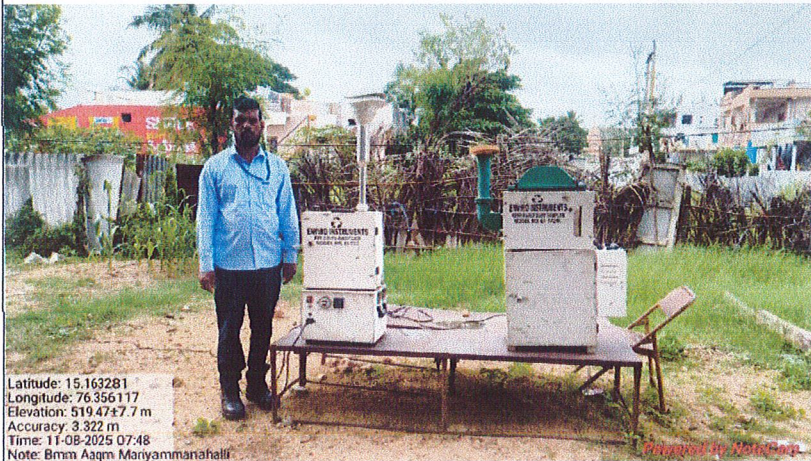
Note:

- 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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- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

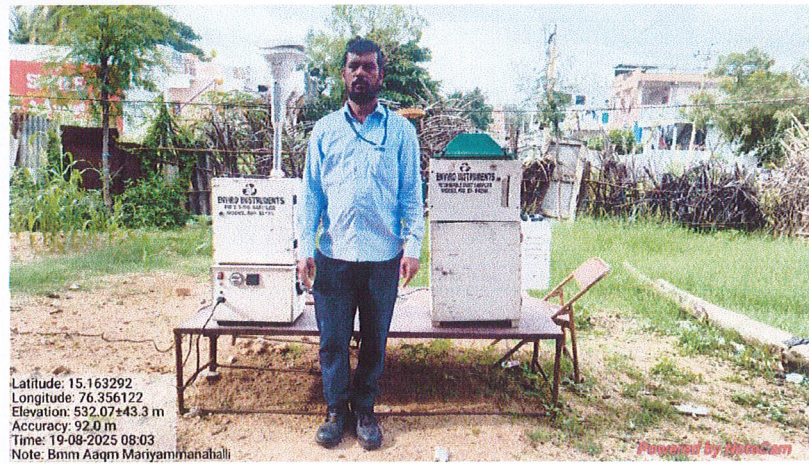
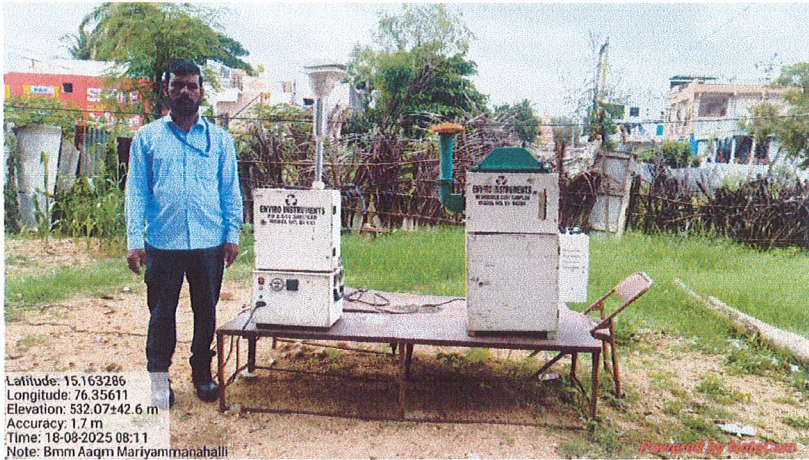
Address: Maruthi G. S/o. Uppara Ramappa 6th ward Venkatapura Road, MMHalli.

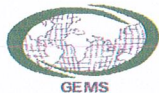


AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

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





GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyzer
 Month : AUGUST-2025
 Location : A3-Hanumanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/1757

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3439	<0.01	4.0
2	05.08.2025	3522	0.12	
3	11.08.2025	3752	<0.01	
4	12.08.2025	3806	<0.01	
5	18.08.2025	4007	<0.01	
6	19.08.2025	4066	0.10	
7	28.08.2025	4403	0.12	
8	29.08.2025	4424	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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

B. B.
 Analysed By
 Brunda B
 Chemist

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



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

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





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(Consulting Engineers, Mine designers, Geologist & Surveyors)

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : **AUGUST-2025**
Location : **A4-Galemmanagudi Village**
Duration of Monitoring : 24 Hour
Report Issue Date : **03.09.2025**
Report Number : **ULR-TC1618025000001759F**

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
04.08.2025	05.08.2025	3441	49.59	100	9.47	60	10.68	80	12.00	80
05.08.2025	06.08.2025	3524	37.59		8.46		14.02		16.45	
11.08.2025	12.08.2025	3754	41.03		10.19		12.30		14.39	
12.08.2025	13.08.2025	3808	34.71		8.81		13.50		16.51	
18.08.2025	19.08.2025	4009	40.60		9.17		11.57		13.62	
19.08.2025	20.08.2025	4068	41.06		10.69		07.89		16.94	
28.08.2025	29.08.2025	4405	28.35		5.51		10.14		11.06	
29.08.2025	30.08.2025	4426	33.40		6.17		09.16		11.10	
Average			38.29		8.56		11.16		14.01	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S./198-C-21	PM2.5 / PM10 Sampler / 530-F-2024
4	Calibration Date	24.07.2025	25.04.2025
5	Calibration Due Date	23.07.2026	24.04.2026

INFERENCE

As per NAAQMS Standards (2009).

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

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

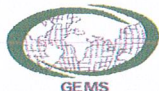
Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : AUGUST-2025
 Location : A4-Galemmanagudi Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/1759

RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3441	0.14	4.0
2	05.08.2025	3524	0.10	
3	11.08.2025	3754	0.12	
4	12.08.2025	3808	<0.01	
5	18.08.2025	4009	0.10	
6	19.08.2025	4068	<0.01	
7	28.08.2025	4405	0.12	
8	29.08.2025	4426	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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


 Analysed By
 Brunda B
 Chemist


 Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

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

Tq: Hospet Di: Vijayanagara

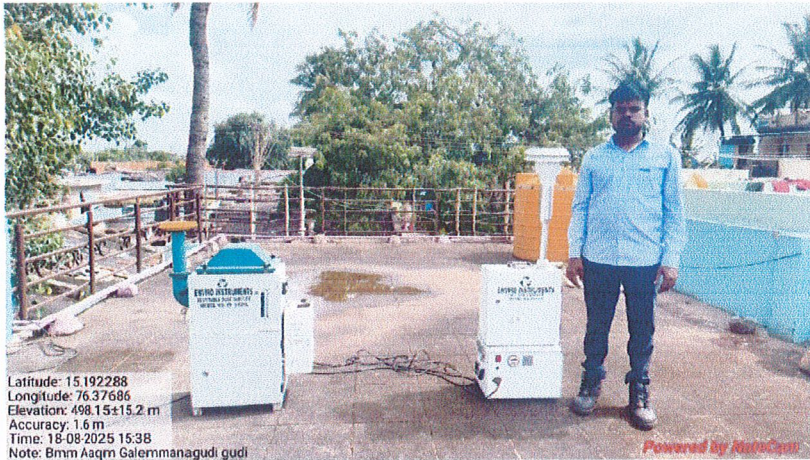


AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

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

Tq: Hospet Di: Vijayanagara





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(Consulting Engineers, Mine designers, Geologist & Surveyors)

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by	: Global Environment & Mining Services LLP
Discipline	: Chemical
Group	: Atmospheric Pollution
Sample Type	: Ambient Air Quality Monitoring
Particulars of Sample Collected	: Respirable Dust Sampler, FPS Sampler
Month	: AUGUST-2025
Location	: A5-G Nagalapura Village
Duration of Monitoring	: 24 Hour
Report Issue Date	: 03.09.2025
Report Number	: ULR-TC1618025000001760F

RESULTS

Parameters			PM10 [µg/m ³]		PM2.5 [µg/m ³]		SO2 [µg/m ³]		NO2 [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
04.08.2025	05.08.2025	3442	41.48	100	8.03	60	10.76	80	12.95	80
05.08.2025	06.08.2025	3525	32.51		11.90		11.09		11.28	
11.08.2025	12.08.2025	3755	38.50		9.62		10.38		12.71	
12.08.2025	13.08.2025	3809	36.05		7.09		12.52		16.37	
18.08.2025	19.08.2025	4010	40.21		5.44		07.28		09.19	
19.08.2025	20.08.2025	4069	38.05		7.25		11.94		12.09	
28.08.2025	29.08.2025	4406	26.09		3.99		11.57		12.65	
29.08.2025	30.08.2025	4427	34.43		5.17		10.37		11.67	
Average			35.92		7.31		10.74		12.36	

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	24.07.2025	23.09.2024
5	Calibration Due Date	23.07.2026	22.09.2025

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

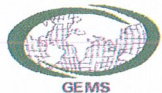
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : AUGUST-2025
 Location : A5- G Nagalapura Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/1760

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3442	<0.01	4.0
2	05.08.2025	3525	<0.01	
3	11.08.2025	3755	<0.01	
4	12.08.2025	3809	<0.01	
5	18.08.2025	4010	<0.01	
6	19.08.2025	4069	<0.01	
7	28.08.2025	4406	<0.01	
8	29.08.2025	4427	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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

Analysed By
 Brunda B
 Chemist

Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager

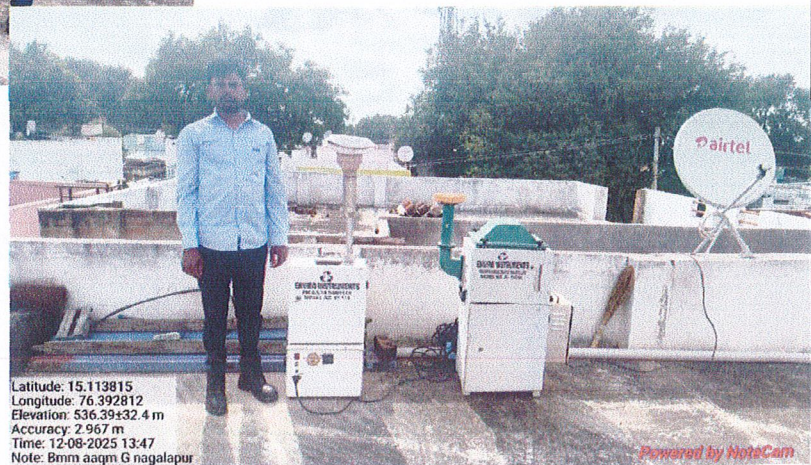


- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

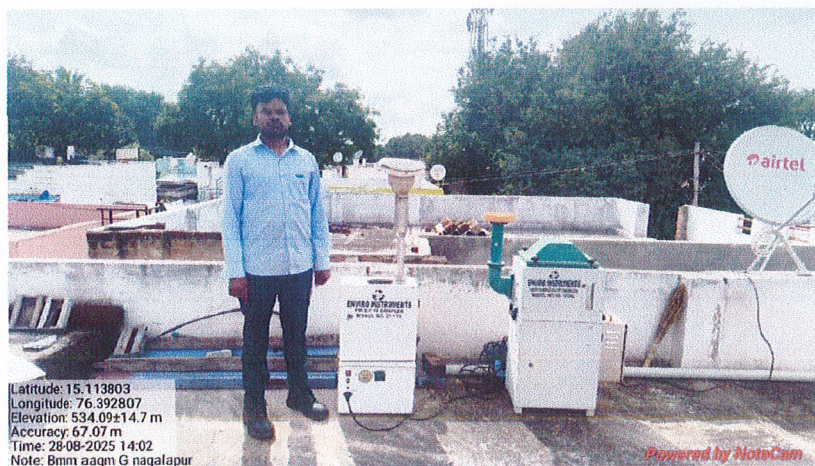
Address: B Manjunath S/o. B Hemanna G Nagalapura Hospet Tq Di : Vijayanagara Near 2nd ward Bus stand
Nagalapura



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





GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : AUGUST-2025
Location : A6-Gunda Tanda Village
Duration of Monitoring : 24 Hour
Report Issue Date : 03.09.2025
Report Number : ULR-TC1618025000001761F

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
04.08.2025	05.08.2025	3443	42.00	100	6.09	60	7.70	80	8.91	80
05.08.2025	06.08.2025	3526	32.21		7.91		9.22		10.42	
11.08.2025	12.08.2025	3756	39.64		8.74		6.39		8.67	
12.08.2025	13.08.2025	3810	32.14		6.80		8.69		10.76	
18.08.2025	19.08.2025	4011	41.12		8.58		7.16		11.89	
19.08.2025	20.08.2025	4070	35.64		8.58		7.10		8.16	
28.08.2025	29.08.2025	4407	24.77		3.51		8.14		9.77	
29.08.2025	30.08.2025	4428	31.17		7.71		8.33		10.60	
Average			34.84		7.24		7.84		9.90	

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 / 158-K-20
4	Calibration Date	24.07.2025	25.04.2025
5	Calibration Due Date	23.07.2026	24.04.2026

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:

- 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 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : AUGUST-2025
 Location : A6-Gunda Tanda Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.09.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/1761

RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.08.2025	3443	<0.01	4.0
2	05.08.2025	3526	<0.01	
3	11.08.2025	3756	<0.01	
4	12.08.2025	3810	<0.01	
5	18.08.2025	4011	<0.01	
6	19.08.2025	4070	<0.01	
7	28.08.2025	4407	<0.01	
8	29.08.2025	4428	<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	12.07.2025
5	Calibration Due Date	11.07.2026

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

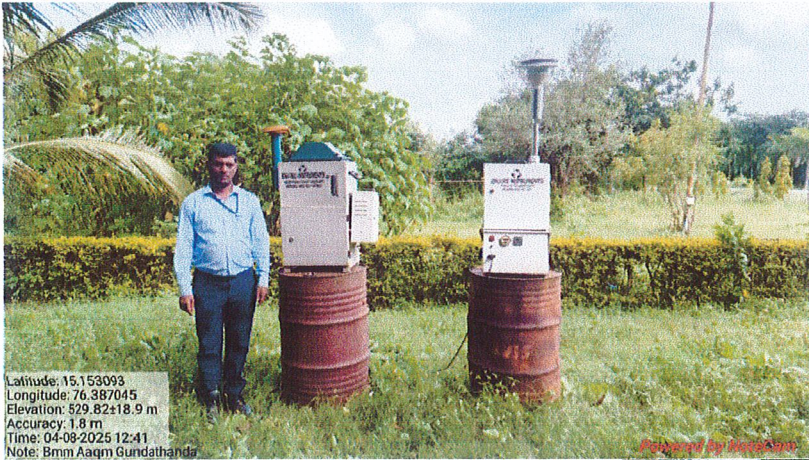

 Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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

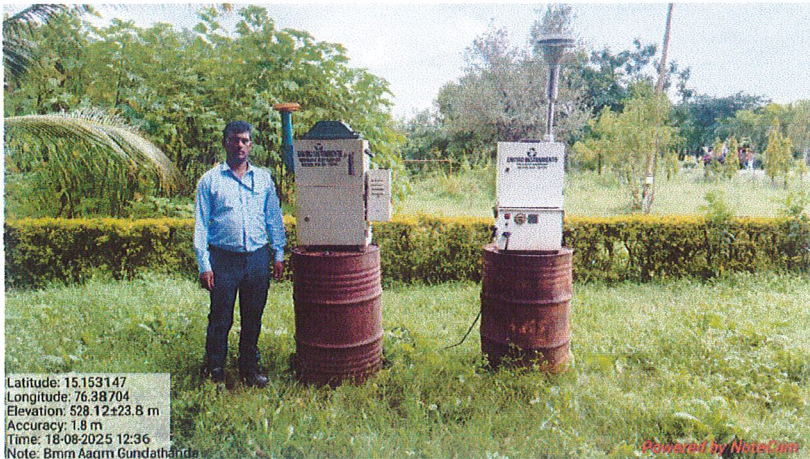
AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's
Gunda Thanda



AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's
Gunda Thanda





GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist, Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	AUGUST-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	:	03.09.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/1900

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	3652	08.08.2025	09.08.2025	604.94	2000
2.	Near Iron Ore Bottom Hopper	3650	08.08.2025	09.08.2025	878.34	2000
3.	Iron Ore Screen	3651	08.08.2025	09.08.2025	1801.69	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	3741	11.08.2025	12.08.2025	1888.16	2000
5.	Annual Cooler Pellet Discharge bin	3742	11.08.2025	12.08.2025	416.37	2000
6.	Pellet Stock Yard	3743	11.08.2025	12.08.2025	1828.87	2000
III. Sponge Iron Division-1 (kiln 1 & 2)						
7.	Control Room SID-1	3796	12.08.2025	13.08.2025	761.41	2000
8.	Near Product bin	3797	12.08.2025	13.08.2025	1662.75	2000
9.	Coal Feeding Area	3798	12.08.2025	13.08.2025	710.62	2000
IV. Induction Furnace & Rolling Mill – 1						
10.	IF Office	3744	11.08.2025	12.08.2025	412.01	2000
11.	TMT Stock Yard	3745	11.08.2025	12.08.2025	227.03	2000
12.	RML Gasifier	3795	12.08.2025	13.08.2025	331.40	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	3799	12.08.2025	13.08.2025	332.55	2000
14.	25 MW ACC	3855	13.08.2025	14.08.2025	299.08	2000
VI. Site Services						
15.	PGP- coal handling system	3746	11.08.2025	12.08.2025	714.99	2000
16.	IF Slag Crusher	3800	12.08.2025	13.08.2025	290.32	2000
17.	Main Gate	3856	13.08.2025	14.08.2025	169.69	2000
18.	Fly ash Dump	3613	07.08.2025	08.08.2025	639.02	2000

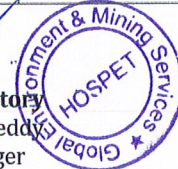
Note: SPM- Suspended Particulate matter. ($\mu\text{g}/\text{m}^3$), INFERENCE: The Measured Values are within the limits.

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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist, Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	AUGUST-2025(2nd Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4)1999 RA 2014
9	Report Issued Date	:	03.09.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2161

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	4189	22.08.2025	23.08.2025	1047.91	2000
2.	Near Iron Ore Bottom Hopper	4187	22.08.2025	23.08.2025	1612.22	2000
3.	Iron Ore Screen	4188	22.08.2025	23.08.2025	1044.59	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	4190	22.08.2025	23.08.2025	1319.88	2000
5.	Annual Cooler Pellet Discharge bin	4191	22.08.2025	23.08.2025	1901.67	2000
6.	Pellet Stock Yard	4238	23.08.2025	24.08.2025	1835.98	2000
III. Sponge Iron Division-1(kiln 1 & 2)						
7.	Control Room SID-I	4302	25.08.2025	26.08.2025	1668.04	2000
8.	Near Product bin	4303	25.08.2025	26.08.2025	1393.93	2000
9.	Coal Feeding Area	4304	25.08.2025	26.08.2025	514.51	2000
IV. Induction Furnace & Rolling Mill						
10.	IF Office	4239	23.08.2025	24.08.2025	1044.69	2000
11.	TMT Stock Yard	4240	23.08.2025	24.08.2025	340.32	2000
12.	RML Gasifier	4241	23.08.2025	24.08.2025	1144.19	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	4305	25.08.2025	26.08.2025	596.71	2000
14.	25 MW ACC	4341	26.08.2025	27.08.2025	409.54	2000
VI. Site Services						
15.	PGP- Coal handling system	4242	23.08.2025	24.08.2025	718.21	2000
16.	IF Slag Crusher	4306	25.08.2025	26.08.2025	390.61	2000
17.	Main Gate	4342	26.08.2025	27.08.2025	293.12	2000
18.	Fly ash Dump	4146	21.08.2025	22.08.2025	788.57	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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

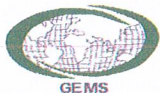
****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	AUGUST-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	:	03.09.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2003

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	3857	13.08.2025	14.08.2025	324.15	2000
2.	Stock House	3859	13.08.2025	14.08.2025	1118.35	2000
3.	Gas Network Area	3860	13.08.2025	14.08.2025	467.71	2000
4.	Blower Area	3897	14.08.2025	15.08.2025	393.95	2000
5.	Gas Cleaning plant (GCP)	3861	13.08.2025	14.08.2025	727.24	2000
6.	Stove Area	3898	14.08.2025	15.08.2025	277.72	2000
7.	Control ROOM (CR)	3899	14.08.2025	15.08.2025	233.49	2000
8.	Pig Costing Machine (PCM)	3900	14.08.2025	15.08.2025	930.58	2000
9.	Slag Granulation Plant (SGP)	3901	14.08.2025	15.08.2025	488.10	2000
10.	Cost House Area	3902	14.08.2025	15.08.2025	296.98	2000
SMS Area						
1.	Stock House/Vibro Feeders	3562	06.08.2025	07.08.2025	570.33	2000
2.	Laddle Tapping	3609	07.08.2025	08.08.2025	422.22	2000
3.	Slag pouring Area	3648	08.08.2025	09.08.2025	357.30	2000
MBM						
1.	Near Re-Heating Furnace	3510	05.08.2025	06.08.2025	239.47	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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

End of the Report

Analysed By
 Brunda.B
 Chemist

Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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



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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist, Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	AUGUST-2025(1stFort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	03.09.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/1720

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)	3389	01.08.2025	02.08.2025	244.28	2000
2.	Near Cone Crusher	3391	01.08.2025	02.08.2025	1703.66	2000
3.	Concentrate Thickner	3390	01.08.2025	02.08.2025	270.92	2000
II. Pellet Plant						
4.	PR-6	3392	01.08.2025	02.08.2025	314.41	2000
5.	Annual Cooler Pellet Discharge bin	3411	02.08.2025	03.08.2025	1191.52	2000
6.	Additive Grinding Building	3412	02.08.2025	03.08.2025	1672.61	2000
III. Sponge Iron Division -2 (Kiln 3 & 4)						
7.	Control room	3430	04.08.2025	05.08.2025	531.69	2000
8.	Near Weigh bridge (dispatch)	3431	04.08.2025	05.08.2025	1403.22	2000
9.	Pellet Storage bin	3432	04.08.2025	05.08.2025	453.74	2000
10.	Transfer House area	3413	02.08.2025	03.08.2025	545.86	2000
11.	Production Separation Bin-PSB	3414	02.08.2025	03.08.2025	676.82	2000
IV. Sponge Iron Division -3 (Kiln 5 & 6)						
12.	Near Control room	3433	04.08.2025	05.08.2025	764.43	2000
13.	Near Coal Crusher	3512	05.08.2025	06.08.2025	1781.23	2000
14.	Near Product bin	3511	05.08.2025	06.08.2025	1712.82	2000
15.	Coal Dryer	3513	05.08.2025	06.08.2025	972.94	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	3514	05.08.2025	06.08.2025	1086.95	2000
17.	Monsoon Shed (CPU)	3563	06.08.2025	07.08.2025	194.72	2000
18.	MCC Room (2 nd Gate)	3564	06.08.2025	07.08.2025	161.01	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	3565	06.08.2025	07.08.2025	280.84	2000
20.	2 nd gateweigh bridge Near Coal Screen	3649	08.08.2025	09.08.2025	638.88	2000
21.	CFBC boiler	3566	06.08.2025	07.08.2025	195.54	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	3610	07.08.2025	08.08.2025	375.66	2000
23.	Near Coal storage Shed	3611	07.08.2025	08.08.2025	1168.59	2000
24.	Dolochar Processing Area	3612	07.08.2025	08.08.2025	276.65	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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

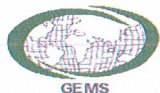
****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
- 5 Month : AUGUST-2025(2ND Fort Night)
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Method adopted : IS 5182 (Part 4): 1999 RA 2014
- 9 Report Issued Date : 03.09.2025
- 10 Report Number : GEMS/BMMIL/FM/2025-26/979

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)	3946	16.08.2025	17.08.2025	285.78	2000
2.	Near Cone Crusher	3948	16.08.2025	17.08.2025	778.23	2000
3.	Concentrate Thickner	3947	16.08.2025	17.08.2025	547.12	2000
II. Pellet Plant-I						
4.	PR-6	3949	16.08.2025	17.08.2025	531.39	2000
5.	Annual Cooler Pellet Discharge bin	3950	16.08.2025	17.08.2025	1241.10	2000
6.	Additive Grinding Building		19.08.2025	20.08.2025	681.57	2000
III. Sponge Iron Division -2 (Kiln 3&4)						
7.	Control room	3988	18.08.2025	19.08.2025	367.38	2000
8.	Near Weigh bridge (dispatch)	3989	18.08.2025	19.08.2025	776.27	2000
9.	Pellet Storage bin	3992	18.08.2025	19.08.2025	1277.27	2000
10.	Transfer House area	3990	18.08.2025	19.08.2025	934.30	2000
11.	Production Separation Bin-PSB	3991	18.08.2025	19.08.2025	893.60	2000
IV. Sponge Iron Division -2 (Kiln 5&6)						
12.	Near Control room	4056	19.08.2025	20.08.2025	1398.90	2000
13.	Near Coal Crusher	4058	19.08.2025	20.08.2025	1717.87	2000
14.	Near Product bin	4057	19.08.2025	20.08.2025	788.44	2000
15.	Coal Drier	4095	20.08.2025	21.08.2025	1219.09	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	4059	19.08.2025	20.08.2025	534.36	2000
17.	Monsoon Shed (CPU)	4095	20.08.2025	21.08.2025	423.61	2000
18.	MCC Room (2 nd Gate)	4096	20.08.2025	21.08.2025	527.01	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	4097	20.08.2025	21.08.2025	420.42	2000
20.	2 nd gate weigh bridge Near Coal Screen	4142	21.08.2025	22.08.2025	1575.55	2000
21.	CFBC boiler	4098	20.08.2025	21.08.2025	299.99	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	4143	21.08.2025	22.08.2025	307.91	2000
23.	Near Coal storage Shed	4144	21.08.2025	22.08.2025	1678.95	2000
24.	CPP Dolochar Process Area	4145	22.08.2025	22.08.2025	462.39	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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	AUGUST-2025(2 nd Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	03.09.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2228

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	4343	26.08.2025	27.08.2025	1644.23	2000
2.	Stock House	4344	26.08.2025	27.08.2025	957.88	2000
3.	Gas Network Area	4345	26.08.2025	27.08.2025	670.22	2000
4.	Blower Area	4393	28.08.2025	29.08.2025	306.55	2000
5.	Gas Cleaning plant (GCP)	4394	28.08.2025	29.08.2025	310.19	2000
6.	Stove Area	4395	28.08.2025	29.08.2025	1029.91	2000
7.	Control ROOM (CR)	4396	28.08.2025	29.08.2025	253.63	2000
8.	Pig Costing Machine (PCM)	4414	29.08.2025	30.08.2025	368.03	2000
9.	Slag Granulation Plant (SGP)	4415	29.08.2025	30.08.2025	501.65	2000
10.	Cost House Area	4397	28.09.2025	29.08.2025	1740.49	2000
SMS Area						
1.	Stock House/Vibro Feeders	4416	29.08.2025	30.08.2025	1758.75	2000
2.	Ladle Tapping	4417	29.08.2025	30.08.2025	410.42	2000
3.	Slag pouring Area	4418	29.08.2025	30.08.2025	1655.56	2000
MBM						
1.	Near Re-Heating Furnace	4413	29.08.2025	30.08.2025	329.58	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	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025
- 11 Date of Sample Received : 02.08.2025&18.08.2025
- 12 Date of Sample Analysis : 04.08.2025&19.08.2025
- 13 Date of Sample Analysis completion : 04.08.2025&19.08.2025
- 14 Report Issued Date : 03.09.2025
- 15 Report Number : ULR-TC1618025000001738F

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	Result		Permissible Limit
	Date of Monitoring			1 st Fort Night	2 nd Fort Night	
	Sample Code			02.08.2025	18.08.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	59	56	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.33	5.51	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	291682	301789	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	261363	272561	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	27.58	25.62	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	141	134	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	17	15	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.014	0.011	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



Note:

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025
- 11 Date of Sample Received : 11.08.2025&23.08.2025
- 12 Date of Sample Analysis : 12.08.2025&25.08.2025
- 13 Date of Sample Analysis completion : 12.08.2025&25.08.2025
- 14 Report Issued Date : 03.09.2025
- 15 Report Number : ULR-TC1618025000001965F

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
				1st Fort Night	2nd Fort Night	
				11.08.2025	23.08.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	176	172	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.29	6.32	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	71143	71479	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	47106	47792	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	18.64	16.79	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	294	306	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	36	38	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.145	0.134	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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e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : **AUGUST-2025 (1st Fort Night)**
- 10 Date of Sample Received : 13.08.2025
- 11 Date of Sample Analysis : 14.08.2025
- 12 Date of Sample Analysis completion : 14.08.2025
- 13 Report Issued Date : **03.09.2025**
- 14 Report Number : **ULR-TC1618025000002005F**

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/N m ³
Induction Furnace 1 & 2											
1	Induction Furnace 1	13.08.2025	3763	Electric Power	27	37	4.47	30	1.2	4.88	150
2	Induction Furnace 2	13.08.2025	3864		28	40	4.79	30	1.3	9.09	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	18198	17431	-
2	Induction Furnance 2	22875	21662	-

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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TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP, 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	: AUGUST-2025
11	Date of Sample Received	: 12.08.2025&28.08.2025
12	Date of Sample Analysis	: 13.08.2025&29.08.2025
13	Date of Sample Analysis completion	: 13.08.2025&29.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001977F

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			12.08.2025	28.08.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	88	92	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.92	5.76	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	10710	10423	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	8819	8469	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	40.46	35.11	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	39	34	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	118	112	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.193	0.216	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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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : **AUGUST-2025**
- 11 Date of Sample Received : -
- 12 Date of Sample Analysis : -
- 13 Date of Sample Analysis completion : -
- 14 Report Issued Date : **03.09.2025**
- 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
				1 st Fort Night	2 nd Fort Night	
	Date of Monitoring 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****

K. Ramakrishna Reddy
Authorized Signatory
K. Ramakrishna Reddy
Technical Manager



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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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025(1st Fort Night)
- 10 Date of Sample Received : -
- 11 Date of Sample Analysis : -
- 12 Date of Sample Analysis completion : -
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : -

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	-		-	-	-	-	30	0.4	-	50
2	Iron Ore Screen bin	-		-	-	-	-	30	0.4	-	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	-	-	-
2	Iron Ore Screen bin	-	-	-

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****

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

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : **AUGUST-2025(1st Fort Night)**
- 10 Date of Sample Received : 14.08.2025
- 11 Date of Sample Analysis : 16.08.2025
- 12 Date of Sample Analysis completion : 16.08.2025
- 13 Report Issued Date : **03.09.2025**
- 14 Report Number : **ULR-TC1618025000002022F**

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)	14.08.2025	3904	-	27	37	4.74	35	1.5	33.49	50
4	Main Crusher	14.08.2025	3905	-	26	33	4.94	25	0.5	9.95	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)	30190	28861	-
4	Main Crusher	3495	3384	-

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****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : **AUGUST-2025(1st Fort Night)**
- 10 Date of Sample Received : 02.08.2025&04.08.2025
- 11 Date of Sample Analysis : 04.08.2025&05.08.2025
- 12 Date of Sample Analysis completion : 04.08.2025&05.08.2025
- 13 Report Issued Date : **03.09.2025**
- 14 Report Number : **ULR-TC1618025000001739F**

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	02.08.2025	3416	-	28	34	4.62	6.5	0.50	17.10	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	02.08.2025	3417	-	29	36	4.78	3.0	0.30	25.19	50
7	Bentonite Powder bin top bag filter	02.08.2025	3418	-	30	35	5.03	3.0	0.30	24.17	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	04.08.2025	3415	-	28	38	4.84	7.0	0.50	33.49	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	3264	3161	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1216	1167	-
7	Bentonite Powder bin top bag filter	1279	1231	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3422	3273	-

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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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025 (1st Fort Night)
- 10 Date of Sample Received : 12.08.2025, 13.08.2025 & 14.08.2025
- 11 Date of Sample Analysis : 13.08.2025, 14.08.2025 & 16.08.2025
- 12 Date of Sample Analysis completion : 13.08.2025, 14.08.2025 & 16.08.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000001979F

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	12.08.2025	3803	---	29	34	4.64	30	1.20	24.49	50
11	Cooler-2 Discharge	12.08.2025	3804	---	29	35	5.04	30	1.20	29.12	50
12	Intermediate Bin & Blending	13.08.2025	3865	---	27	35	4.48	30	1.20	25.66	50
13	Product House	14.08.2025	3906	---	26	32	4.87	30	1.20	22.90	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	18887	18234	-
11	Cooler-2 Discharge	20519	19735	-
12	Intermediate Bin & Blending	18224	17528	-
13	Product House	19813	19282	-

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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Website : www.gemslp.in



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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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025(2nd Fort Night)
- 10 Date of Sample Received : -
- 11 Date of Sample Analysis : -
- 12 Date of Sample Analysis completion : -
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : -

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	SHUT DOWN	-	Electric	-	-	-	30	1.2	-	50
2	Induction Furnance 2	SHUT DOWN	-	Power	-	-	-	30	1.3	-	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	-	-	-
2	Induction Furnance 2	-	-	-

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****

Signature
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- Sample collected by : Global Environment & Mining Services LLP, Hosapete
- Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : **AUGUST-2025(2nd Fort Night)**
- Date of Sample Received : -
- Date of Sample Analysis : -
- Date of Sample Analysis completion : -
- Report Issued Date : **03.09.2025**
- Report Number : -

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	0.40	-	50
2	Iron Ore Screen bin	-	-	---	-	-	-	30	0.40	-	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	-	-	-
2	Iron Ore Screen bin	-	-	-

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****

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025(2nd Fort Night)
- 10 Date of Sample Received : 30.08.2025
- 11 Date of Sample Analysis : 01.09.2025
- 12 Date of Sample Analysis completion : 01.09.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000002269F

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)	30.08.2025	4448	-	27	38	4.91	30	1.50	29.69	50
4	Main Crusher	30.08.2025	4449	-	28	33	4.59	25	0.50	10.84	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)	31262	29829	-
4	Main Crusher	3246	3139	-

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

Analysed By
Brunda.B
Chemist

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025(2nd Fort Night)
- 10 Date of Sample Received : 18.08.2025&19.08.2025
- 11 Date of Sample Analysis : 19.08.2025&20.08.2025
- 12 Date of Sample Analysis completion : 19.06.2025&20.08.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000002074F

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	18.08.2025	3994	---	26	32	4.67	6.5	0.50	18.73	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	18.08.2025	3995	---	25	33	4.80	3.0	0.30	22.46	50
7	Bentonite Powder bin top bag filter	18.08.2025	3996	---	25	31	4.84	3.0	0.30	22.07	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	19.08.2025	4064	---	26	36	4.62	7.0	0.50	27.95	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	3304	3217	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1221	1182	-
7	Bentonite Powder bin top bag filter	1231	1199	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3268	3139	-

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Ph : 08394 355369
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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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, 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 : AUGUST-2025(2nd Fort Night)
- 10 Date of Sample Received : 28.08.2025&29.08.2025
- 11 Date of Sample Analysis : 29.08.2025&30.08.2025
- 12 Date of Sample Analysis completion : 29.08.2025&30.08.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000002259F

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	28.08.2025	4399	---	26	34	4.82	30	1.20	24.54	50
11	Cooler-2 Discharge	28.08.2025	4400	---	27	35	4.92	30	1.20	23.06	50
12	Intermediate Bin & Blending	28.08.2025	4401	---	26	36	4.43	30	1.20	27.66	50
13	Product House	29.08.2025	4422	---	28	34	4.78	30	1.20	24.31	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	19618	18938	-
11	Cooler-2 Discharge	20053	19254	-
12	Intermediate Bin & Blending	18032	17248	-
13	Product House	19452	18779	-

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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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 01.08.2025&16.08.2025
12	Date of Sample Analysis	: 02.08.2025&18.08.2025
13	Date Sample Analysis Completion	: 02.08.2025&18.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001721F

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
				1st Fort Night	2nd Fort Night	
				01.08.2025	16.08.2025	
	Date of Monitoring					
	Sample Code			3393	3952	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	65	61	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	4.57	5.115	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m³/hr	250106	281958	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm³/hr	220276	250210	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	29.07	27.59	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm³	158	142	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm³	41	39	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.022	0.018	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

Note:

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- * Mark mentioned that the NABL symbol was not used that day; please do not consider it.



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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 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 : AUGUST-2025
- 11 Date of Sample Received : 04.08.2025&19.08.2025
- 12 Date of Sample Analysis : 05.08.2025&20.08.2025
- 13 Date Sample Analysis Completion : 05.08.2025&20.08.2025
- 14 Report Issued Date : 03.09.2025
- 15 Report Number : ULR-TC1618025000001752F

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	
				04.08.2025	19.08.2025	
	Date of Monitoring					
	Sample Code			3434	4060	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	124	128	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.13	6.13	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	156134	155995	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	117029	115560	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	32.37	30.28	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	359	384	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	18	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.096	0.115	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



Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 05.08.2025&20.08.2025
12	Date of Sample Analysis	: 06.08.2025&21.08.2025
13	Date Sample Analysis Completion	: 06.08.2025&21.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001826F

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
	Date of Monitoring			1 st Fort Night	2 nd Fort Night	
	Sample Code			05.08.2025	20.08.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	131	130	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.09	6.21	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	155093	158102	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	114129	116586	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	35.15	33.12	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	539	626	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	39	41	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.119	0.126	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

Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 06.08.2025&21.08.2025
12	Date of Sample Analysis	: 07.08.2025&22.08.2025
13	Date Sample Analysis Completion	: 07.08.2025&22.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001852F

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	
				06.08.2025	21.08.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	113	112	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.78	5.50	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	147016	140032	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	113186	108346	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	26.91	25.22	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	28	27	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	164	162	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.036	0.031	1%

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

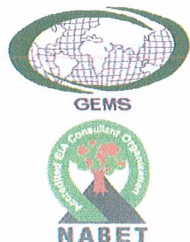
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 07.08.2025&22.08.2025
12	Date of Sample Analysis	: 08.08.2025&23.08.2025
13	Date Sample Analysis Completion	: 08.08.2025&23.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001884F

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	
				07.08.2025	22.08.2025	
	Date of Monitoring					
	Sample Code			3615	4192	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	118	121	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.04	6.00	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	1092307	1085595	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	830528	820652	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	36.39	39.93	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	56	49	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	231	196	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.012	0.022	NS

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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e-mail : gems_hpt@yahoo.com

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TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 12.08.2025&29.08.2025
12	Date of Sample Analysis	: 13.08.2025&30.08.2025
13	Date Sample Analysis Completion	: 13.08.2025&30.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000001977F

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	
				12.08.2025	29.08.2025	
	Date of Monitoring					
	Sample Code			3801	4419	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	82	84	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.33	5.44	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	86848	88688	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	72683	73827	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	18.35	20.89	50

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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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025
11	Date of Sample Received	: 13.08.2025&29.08.2025
12	Date of Sample Analysis	: 14.08.2025&30.08.2025
13	Date Sample Analysis Completion	: 14.08.2025&30.08.2025
14	Report Issued Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002004F

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	
				13.08.2025	29.08.2025	
	Date of Monitoring					
	Sample Code			3862	4420	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	105	108	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.96	5.81	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	151739	147863	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	119294	115255	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	16.15	17.13	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	318	309	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	29	24	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.508	0.492	NS

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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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemsllp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 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 : AUGUST-2025
- 11 Date of Sample Received : 14.08.2025&30.08.2025
- 12 Date of Sample Analysis : 16.08.2025&01.09.2025
- 13 Date Sample Analysis Completion : 16.08.2025&01.09.2025
- 14 Report Issued Date : 03.09.2025
- 15 Report Number : ULR-TC1618025000002021F

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
				1st Fort Night	2nd Fort Night	
				14.08.2025	30.08.2025	
	Date of Monitoring Sample Code			3903	4447	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	25	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	138	134	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.26	6.31	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	102001	102850	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	73704	75048	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	13.27	12.10	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	79	84	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	18	21	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.537	0.562	<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

Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : AUGUST-2025 (1st Fort Night)
- Date of Sample Received : -
- Date of Sample Analysis : -
- Date Sample Analysis Completion : -
- Report Issued Date : -
- Report Number : -

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	-	-	---	-	-	-	30	1.20	-	50
2	Iron Ore Screening	-	-	---	-	-	-	30	0.90	-	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	-	-	-

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

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 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 : AUGUST-2025(1st Fort Night)
- 10 Date of Sample Received : 01.08.2025
- 11 Date of Sample Analysis : 02.08.2025
- 12 Date Sample Analysis Completion : 02.08.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000001722F

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	01.08.2025	3394	---	28	33	4.58	6.5	0.5	18.21	50
4	Lime & Bentonite Powder bin top bag filter	01.08.2025	3395	---	30	35	4.50	6.5	0.5	21.96	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	01.08.2025	3396	---	31	36	4.69	20	0.5	31.01	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	3238	3149	-
4	Lime & Bentonite Powder bin top bag filter	3181	3066	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3318	3186	-

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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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025(1 st Fort Night)
10	Date of Sample Received	: 04.08.2025,05.08.2025,06.08.2025&07.08.2025
11	Date of Sample Analysis	: 05.08.2025,06.08.2025,07.08.2025&08.08.2025
12	Date Sample Analysis Completion	: 05.08.2025,06.08.2025,07.08.2025&08.08.2025
13	Report Issued Date	: 03.09.2025
14	Report Number	: ULR-TC1618025000001753F

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	04.08.2025	3435	---	29	35	4.40	30	1.20	28.76	50
10	Cooler Discharge -2	04.08.2025	3436	---	28	34	5.08	30	1.20	28.29	50
11	Coal stock house	05.08.2025	3517	---	28	34	4.78	30	1.20	12.13	50
12	PSB 1 System-1	05.08.2025	3518	---	29	35	4.66	30	1.20	30.43	50
13	PSB 1 System-2	05.08.2025	3520	---	28	36	4.93	30	1.20	28.01	50
14	PSB 2 System-1 MCC	06.08.2025	3569	---	27	35	4.87	30	1.20	31.60	50
15	PSB 1 System-2 Road	06.08.2025	3570	---	29	36	4.79	30	1.20	30.65	50
16	Junction House Old & New	06.08.2025	3571	---	29	37	5.10	30	1.20	33.65	50
17	Storage Bunker	07.08.2025	3616	---	29	34	4.43	30	1.20	25.11	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	17911	17247	-
10	Cooler Discharge -2	20690	19981	-
11	Coal stock house	19484	18853	-
12	PSB 1 System-1	18975	18257	-
13	PSB 1 System-2	20072	19240	-
14	PSB 2 System-1 MCC	19849	19139	-
15	PSB 1 System-2 Road	19522	18715	-
16	Junction House Old & New	20751	19819	-
17	Storage Bunker	18043	17466	-
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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Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 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 : AUGUST-2025(1st Fort Night)
- 10 Date of Sample Received : 07.08.2025&11.08.2025
- 11 Date of Sample Analysis : 08.08.2025&12.08.2025
- 12 Date Sample Analysis Completion : 08.08.2025&12.08.2025
- 13 Report Issued Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000001886F

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	07.08.2025	3617	---	30	36	5.15	30	1.20	28.99	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	07.08.2025	3618	---	29	37	4.96	30	1.20	31.15	50
21	DE 8 & 12 I-Bin, (Stand By)	11.08.2025	3747	---	28	36	4.93	30	1.90	32.19	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	11.08.2025	3748	---	29	37	4.60	30	1.90	34.08	50
23	Coal Dryer	11.08.2025	3749	---	28	39	5.10	30	1.20	35.33	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	20985	20134	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	20208	19321	-
21	DE 8 & 12 I-Bin, (Stand By)	50374	48446	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	46973	44958	-
23	Coal Dryer	20748	19718	-

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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TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025(2nd Fort Night)
10	Date of Sample Received	: 29.08.2025
11	Date of Sample Analysis	: 30.09.2025
12	Date Sample Analysis Completion	: 30.09.2025
13	Report Issued Date	: 03.09.2025
14	Report Number	: ULR-TC1618025000002265F

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	29.08.2025	4421	---	27	32	4.37	30	0.90	20.00	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	1587	1521	-

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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e-mail : gems_hpt@yahoo.com

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TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 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 : **AUGUST-2025(2ndFort Night)**
- 10 Date of Sample Received : 16.08.2025
- 11 Date of Sample Analysis : 18.08.2025
- 12 Date Sample Analysis Completion : 18.08.2025
- 13 Report Issued Date : **03.09.2025**
- 14 Report Number : **ULR-TC1618025000002032F**

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	16.08.2025	3953	---	27	33	4.55	6.5	0.50	16.50	50
4	Lime & Bentonite Powder bin top bag filter	16.08.2025	3954	---	27	34	4.37	6.5	0.50	20.22	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	16.08.2025	3955	---	26	37	4.78	2.0	0.50	30.53	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	3380	3220	-

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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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
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	: AUGUST-2025(2nd Fort Night)
10	Date of Sample Received	: 19.08.2025,20.08.2025,21.08.2025&22.08.2025
11	Date of Sample Analysis	: 20.08.2025,21.08.2025,22.08.2025&23.08.2025
12	Date Sample Analysis Completion	: 20.08.2025,21.08.2025,22.08.2025&23.08.2025
13	Report Issued Date	: 03.09.2025
14	Report Number	: ULR-TC1618025000002097F

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	19.08.2025	4061	Coal	27	34	4.51	30	1.2	30.23	50
10	Cooler Discharge -2	19.08.2025	4062	Coal	26	35	5.18	30	1.2	26.92	50
11	Coal stock house	20.08.2025	4100	Coal	27	32	4.94	30	1.2	12.60	50
12	PSB 1 System-1	20.08.2025	4101	Coal	27	34	4.54	30	1.2	28.30	50
13	PSB 1 System-2	20.08.2025	4102	Coal	26	33	5.02	30	1.2	30.67	50
14	PSB 2 System-1 MCC	21.08.2025	4148	Coal	27	36	5.01	30	1.2	30.31	50
15	PSB 1 System-2 Road	21.08.2025	4149	Coal	28	36	4.72	30	1.2	31.91	50
16	Junction House Old & New	21.08.2025	4150	Coal	29	38	4.76	30	1.2	33.87	50
17	Storage Bunker	22.08.2025	4193	Coal	28	34	4.66	30	1.2	24.21	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	18367	17730	-
10	Cooler Discharge -2	21099	20288	-
11	Coal stock house	20129	19600	-
12	PSB 1 System-1	18486	17845	-
13	PSB 1 System-2	20458	19800	-
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****

Analysed By
Brunda.B
Chemist

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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- * Mark mentioned that the NABL symbol was not used that day; please do not consider it.



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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-42
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : AUGUST-2025(2nd Fort Night)
- Date of Sample Received : 22.08.2025&23.08.2025
- Date of Sample Analysis : 23.08.2025&25.08.2025
- Date Sample Analysis Completion : 23.08.2025&25.08.2025
- Report Issued Date : 03.09.2025
- Report Number : ULR-TC1618025000002147F

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	22.08.2025	4194	---	29	36	4.39	30	1.20	30.18	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	22.08.2025	4195	---	28	35	5.05	30	1.20	32.57	50
21	DE 8 & 12 I-Bin, (Stand By)	23.08.2025	4243	---	28	36	4.84	30	1.90	34.41	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	23.08.2025	4244	---	29	37	4.54	30	1.90	35.31	50
23	Coal Dryer	23.08.2025	4246	---	28	39	4.94	30	1.20	33.59	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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
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 : **AUGUST-2025**
Report Issue Date : **03.09.2025**
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : **ULR-TC1618025000001726F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	01.08.2025	49.6	55.0	75
2	Near ATM	01.08.2025	44.8	54.6	75
3	Transit House	02.08.2025	52.9	62.8	75
4	CAAQMS Station	02.08.2025	49.9	55.8	75
5	Gunda Road	04.08.2025	51.6	64.2	75
6	Gunda Railway Station	04.08.2025	48.9	57.2	75
7	Bagging Shed	05.08.2025	54.8	64.8	75
8	Railway Siding	05.08.2025	48.9	56.4	75
9	4th Gate	06.08.2025	53.8	58.2	75
10	Bricks Plant	06.08.2025	45.9	54.6	75
11	Kempuhalla (Wagon Tippler)	07.08.2025	47.2	56.4	75
12	Danapura Bridge	07.08.2025	52.9	66.8	75
13	2nd Gate	08.08.2025	55.0	66.8	75
14	Project Store	08.08.2025	46.2	54.2	75
15	Dispatch (Truck Parking Area)	08.08.2025	61.5	70.6	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:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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	:	WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by	:	Global Environment & Mining Services LLP
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	:	AUGUST-2025
Report Issue Date	:	03.09.2025
Method Adopted	:	IS 9989-1981 Reaffirmed 2014
Report No	:	ULR-TC1618025000002035F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	16.08.2025	49.8	56.8	75
2	Near ATM	16.08.2025	64.4	48.2	75
3	Transit House	18.08.2025	57.9	64.8	75
4	CAAQMS Station	21.08.2025	42.8	55.6	75
5	Gunda Road	19.08.2025	50.8	58.6	75
6	Gunda Railway Station	19.08.2025	49.6	56.7	75
7	Bagging Shed	20.08.2025	52.8	66.8	75
8	Railway Siding	20.08.2025	49.8	48.1	75
9	4th Gate	21.08.2025	57.6	71.0	75
10	Bricks Plant	21.08.2025	45.6	54.6	75
11	Kempuhalla (Wagon Tippler)	22.08.2025	52.8	58.8	75
12	Danapura Bridge	22.08.2025	51.2	68.5	75
13	2nd Gate	23.08.2025	49.6	55.5	75
14	Project Store	23.08.2025	56.7	63.5	75
15	Dispatch (Truck Parking Area)	23.08.2025	62.8	72.5	75

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

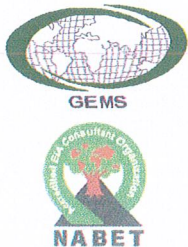
INFERENCE	As per CPCB Standards, Report Status: - Measured Values for the above parameters are within the limit. **End of the Report**
------------------	---

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
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 : **AUGUST-2025**
Report Issue Date : **03.09.2025**
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : **ULR-TC1618025000001725F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)							
			Day Time			Standard	Night Time			Standard
			Min	Max	Avg		Min	Max	Avg	
1	Danapur Village	01.08.2025	49.2	54.8	53.12	55	36.4	42.8	39.60	45
2	Mariyammana Halli	04.08.2025	50.1	56.1	54.45		39.5	40.9	40.20	
3	Hanumana Halli	02.08.2025	54.4	56.4	53.72		37.2	40.4	38.81	
4	Galemmanagudi	05.08.2025	54.8	57.2	54.66		37.3	42.5	39.72	
5	G.Nagalapura Village	06.08.2025	51.8	55.2	53.50		35.1	41.2	38.15	
6	Gunda Tanda Village	07.08.2025	51.0	55.8	53.40		35.6	41.0	38.32	

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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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 | : WORKORDER NO.4500002990 DATED:05.05.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP |
| 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 | : 3959 |
| 10 | Date of Sampling | : 16.08.2025 |
| 11 | Sample Received | : 16.08.2025 |
| 12 | Date of Analysis | : 18.08.2025 |
| 13 | Date of Analysis Completion | : 22.08.2025 |
| 14 | Report Issue Date | : 03.09..2025 |
| 15 | Report Number | : ULR-TC1618025000002037F |

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	-	7.79	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1380	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	828	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	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	9.28	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	59.21	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	180.96	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	45.70	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	640.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	285.8	250max	1000 max

Note:

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TC-16180


ANNEXURE-46

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.43	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	12.01	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	357.0	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	0.11	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

INFERENCE	As per Standards IS: 10500:2012 Report Status: - Measured Values for the above parameters are beyond the limits.
------------------	---

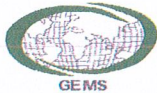
****End of the Report****


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.gemslp.in

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Water
- 8 Sample Type : Ground Water
- 9 Sample Code : 3959
- 10 Date of Sampling : 16.08.2025
- 11 Sample Received : 16.08.2025
- 12 Date of Analysis : 18.08.2025
- 13 Date of Analysis Completion : 22.08.2025
- 14 Report Issue Date : 03.09.2025
15. Report Number : GEMS/BMMIL/GW/2025-26/2037

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
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
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	: 3961
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002039F

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	-	8.26	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1500	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	900	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	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	122.81	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	125.16	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	73.04	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	46.29	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	50.97	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	325.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	280.87	250max	1000 max

Note:

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-47

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.51	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	12.71	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	285.6	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	0.12	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

INFERENCE As per Standards IS: 10500:2012
Report Status: - Measured Values for the above parameters are within the limit.

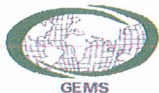
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 3961
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2039

Results

Sl. No	Parameters	Protocol	Unit	Hanumana halli Village (GW2)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemsllp.in



TC-16180

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

Analysis Report of Water Quality Data

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
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	:	3962
10	Date of Sampling	:	16.08.2025
11	Sample Received	:	16.08.2025
12	Date of Analysis	:	18.08.2025
13	Date of Analysis Completion	:	22.08.2025
14	Report Issue Date	:	03.09.2025
15	Report Number	:	ULR-TC1618025000002040F

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	-	7.91	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2340	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1404	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	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	119.4	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	321.5	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	134.67	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	140.17	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	913.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	404.06	250max	1000 max

Note:

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GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-48

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.52	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	12.45	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	418.2	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


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****

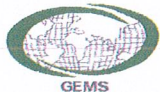

Analysed By
Brunda.B
Chemist


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.
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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : Ground Water
- 9 Sample Code : 3962
- 10 Date of Sampling : 16.08.2025
- 11 Sample Received : 16.08.2025
- 12 Date of Analysis : 18.08.2025
- 13 Date of Analysis Completion : 22.08.2025
- 14 Report Issue Date : 03.09.2025
15. Report Number : GEMS/BMMIL/GW/2025-26/2040

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
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
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	: 3960
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002038F

Results

Sl. No.	Parameters	Protocol	Unit	Mariyamm anaHalli 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	-	7.61	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2000	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1200	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	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	195.24	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	56.23	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	138.88	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	66.17	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	619.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	473.04	250max	1000 max

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-49

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.11	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	10.03	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	408.0	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	0.10	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

Note: GW4: Mariyammanahalli Village. NR-No relaxation

INFERENCE	As per Standards IS: 10500:2012 Report Status: - Measured Values for the above parameters are beyond the limit.
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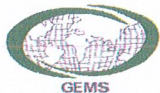
****End of the Report****

Brunda.B
Analysed By
 Brunda.B
 Chemist

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

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 3960
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2038

Results

Sl. No	Parameters	Protocol	Unit	Mariyamman a Halli Village (GW4)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
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	: 3963
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002041F

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	-	7.75	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	μS/cm	1000	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	600	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	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	197.62	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	151.38	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	5.31	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	37.87	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	12.71	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	147.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	68.98	250max	1000 max

Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-50

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.68	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	13.20	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	153.0	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	0.10	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

INFERENCE	As per Standards IS: 10500:2012 Report Status: - Measured Values for the above parameters are within the limit.
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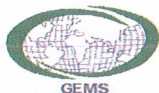
****End of the Report****

B. B.
Analysed By
 Brunda.B
 Chemist

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

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 3963
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2041

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
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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	: WORKORDER NO.4500002990 DATED:05.05.2025 - 450000125
3	Sample collected by	: Global Environment & Mining Services LLP
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	: 3964
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002042F

Results

Sl. No.	Parameters	Protocol	Unit	G. Nagalapura 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	-	7.62	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1960	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1176	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	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	43.21	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	168.2	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	8.14	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	155.71	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	84.01	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	735.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	453.33	250max	1000 max

Note:

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180


ANNEXURE-51

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.32	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	10.14	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	387.6	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	0.09	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

Note: GW6: G Naglaapra Village. **NR**-No relaxation.

INFERENCE	As per Standards IS: 10500:2012 Report Status: - Measured Values for the above parameters are beyond the limit.
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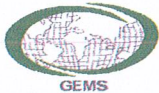
****End of the Report****


Analysed By
 Brunda. B
 Chemist


Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager

Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Water
- 8 Sample Type : Ground Water
- 9 Sample Code : **3964**
- 10 Date of Sampling : 14.06.2025
- 11 Sample Received : 14.06.2025
- 12 Date of Analysis : 16.06.2025
- 13 Date of Analysis Completion : 21.06.2025
- 14 Report Issue Date : **03.09.2025**
15. Report Number : **GEMS/BMMIL/GW/2025-26/2042**

Results

Sl. No	Parameters	Protocol	Unit	G. Nagalapura Village (GW6)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition - 2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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



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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



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	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
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	: 3965
10	Date of Sampling	: 16.08.2025
11	Sample Received	: 16.08.2025
12	Date of Analysis	: 18.08.2025
13	Date of Analysis Completion	: 22.08.2025
14	Report Issue Date	: 03.09.2025
15	Report Number	: ULR-TC1618025000002043F

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	-	7.50	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	440	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	324	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	32.42	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	46.18	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	10.75	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	16.83	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	10.18	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	84.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	39.42	250max	1000 max

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-52

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.12	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	0.65	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	81.6	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	0.08	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

INFERENCE	As per Standards IS: 10500:2012 Report Status: - Measured Values for the above parameters are within the limit.
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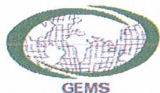
****End of the Report****

BL Q.B
Analysed By
Brunda.B
Chemist

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

Note:

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Water
- 8 Sample Type : RO Drinking Water
- 9 Sample Code : **3965**
- 10 Date of Sampling : 16.08.2025
- 11 Sample Received : 16.08.2025
- 12 Date of Analysis : 18.08.2025
- 13 Date of Analysis Completion : 22.08.2025
- 14 Report Issue Date : **03.09.2025**
- 15 Report Number : **GEMS/BMMIL/RO/2025-26/2043**

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
20	Colour	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Total Residual chlorine	APHA 24th Edition-4500-Cl B:2023	mg/L	Nil	0.2max	1.0max
22	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	Nil	0.8max	No Relaxation
23	Selenium as Se	APHA 24th Edition 3114 C : 2023	mg/L	<0.01	0.01max	No Relaxation
24	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02 max	NR
25	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
26	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
27	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
28	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
29	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
30	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
31	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05max	No Relaxation
32	Phenolic Compound as phenols	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	1.0max	-
33	Boron as B	APHA 24th Edition 4500BB: 2023	mg/L	BDL	0.5max	1.0
34	Escherichia coli count	IS :15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation,

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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

Analysis Report of Water Quality Data

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- Sample collected by : Global Environment & Mining Services LLP
- Particulars of sample collected : Composite Sampling
- Sampling Procedure : GEMS-LD/SOP/32
- Discipline : Chemical
- Group : Pollution & Environment
- Sample Type : Sewage Treatment Plant (Outlet)
- Date of Sampling : 16.08.2025
- Sample Received : 16.08.2025
- Date of Analysis : 18.08.2025
- Date of Analysis Completion : 22.08.2025
- Report Issue Date : 03.09.2025
- Report Number : ULR-TC1618025000002044F

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
		Sample code	-	3966	3967	3968	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.65	7.64	7.34	6.5 to 8.5
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	14.0	12.0	6.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	6.0	4.0	4.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	36.72	20.40	24.48	<50
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	6.0	2.0	6.0	10

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

STP 45 KLD – Near Fortivia

STP-1 90 KLD –Near ISP Area

STP-2 90 KLD –Near Gunda Guest House

End of the Report

Analysed By
Brunda.B
Chemist

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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HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : 03.09.2025
14. Report Number : GEMS/BMMIL/STP/2025-26/2044

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
Sample code			-	3966	3967	3968	
6.	Color	APHA 24th Editon -2120 C:2023	Hazen	5	5	5	-
7.	Odour	IS: 3025 (PART 5)- 1983, RA-2012, True Odour	-	Agree able	Agree able	Agree able	-
8.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	BDL	-
9.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	BDL	-
10.	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3111Cr B : 2023	mg/L	<0.001	<0.001	<0.001	-
11.	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	2.1	0.70	1.26	5
12.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	5.82	2.34	3.52	10
13.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/ 100ml	46	22	27	Less than 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

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : 03.09.2025
- 14 Report Number : ULR-TC1618025000002047F

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		
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.42	8.34	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	38.0	24.0	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	80.0	100.0	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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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



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ANNEXURE-55
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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : **03.09.2025**
14. Report Number : **ULR-TC1618025000002049F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
			Sample code	3971	3972	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.64	7.56	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	0.71	0.34	1.3

INFERENCE: The measured values are within the Limit

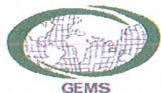
****End of the Report****

BL
Analysed By
Brunda.B
Chemist

KR
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

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e-mail : gems_hpt@yahoo.com


Website : www.gemslp.in

ANNEXURE-55
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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : **03.09.2025**
14. Report Number : **GEMS/SW/2025-26/2049**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
		Sample code		3971	3972	
4	Arsenic as As	APHA 24th Edition 3114- B : 2023	mg/L	<0.1	<0.1	0.2
5	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.2	5.6	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	10	10	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/ 100 ml	148	109	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-


Analysed By
 Brunda B
 Chemist


Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-56
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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : **03.09.2025**
14. Report Number : **ULR-TC1618025000002051F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
Sample code				3973	3974	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.75	7.74	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 24thEditin 4500 F D : 2023	mg/L	0.26	0.30	1.5

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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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-56
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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : **03.09.2025**
14. Report Number : **GEMS/SW/2025-26/2051**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
Sample code				3973	3974	
4	Arsenic as As	APHA 24thEdition3114- B : 2023	mg/L	<0.1	<0.1	0.2
5	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	5.4	5.2	>5.0
6	Color	APHA 24th Editon -2120 C:2023	Hazen	55	50	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr ⁶⁺)	APHA 24th Editon 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/ 100 ml	84	63	500
	Escherichia coli or E. coli	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-

Brunda B
Analysed By
Brunda B
Chemist

K. Ramakrishna Reddy
Authorized Signatory
K. Ramakrishna Reddy
Technical Manager



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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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 : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : 03.09.2025
- 14 Report Number : **ULR-TC1618025000002053F**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
			Sample Code	3975	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.45	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	0.08	1.5
4.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	348	-
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	18.0	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.

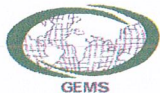
****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-57

GEMS-LD/TF/23/01

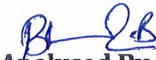
Analysis Report of Water Quality Data

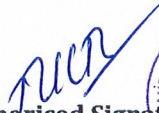
- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 16.08.2025
- 10 Sample Received : 16.08.2025
- 11 Date of Analysis : 18.08.2025
- 12 Date of Analysis Completion : 22.08.2025
- 13 Report Issue Date : **03.09.2025**
14. Report Number : **GEMS/SW/2025-26/2053**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
Sample Code				3975	
6.	Color	APHA 24th Editon -2120 C:2023	Hazen	5	300
7.	Arsenic as As	APHA 24thEdition3114- B : 2023	mg/L	BDL	0.2
8.	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	5.6	>5.0
9.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05
10.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	0.005
11.	Chromium (as Cr ⁶⁺)	APHA 24th Editon 3500 Cr-B:2023	mg/L	BDL	1.0
12.	Total Coliform Organisms,				
	Total Coli forms	IS :1622:1981	MPN/ 100 ml	58	500
	Escherichia coli or E. coli	IS : 1622:1981	MPN/ 100 ml	Absent	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.


Analysed By
 Brunda B
 Chemist


Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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