



# BMM Ispat Ltd.,

## ENVIRONMENTAL MONITORING REPORT



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

**OCTOBER-2025**

**Prepared by**



**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

**NABL & MOEFCC Recognized Laboratory**

(Consulting Engineers, Mine Designers, Geologists & Surveyors)

3<sup>rd</sup> 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.

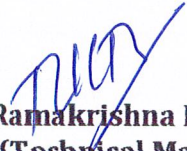
As part of the conditions and inherent concern on health of the employees and surroundings **M/s. BMM Ispat Ltd.**, as appointed **M/s. Global Environment & Mining Services LLP**, Hosapete, to carry out the environmental pollution monitoring on AAQ Monitoring, Fugitive monitoring, Noise Monitoring, Water 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:04.11.2025**

  
**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	EAF & 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 **OCTOBER-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, SO<sub>2</sub>, NO<sub>2</sub> values Average 39.03, 8.76, 8.37 & 9.67 µg/m<sup>3</sup> 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, SO<sub>2</sub>, NO<sub>2</sub> values Average 37.00, 8.47, 8.24 & 9.64 µg/m<sup>3</sup> 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, SO<sub>2</sub>, NO<sub>2</sub> values Average 38.62, 10.12, 8.81 & 10.44 µg/m<sup>3</sup> 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, SO<sub>2</sub>, NO<sub>2</sub> values Average 40.07, 10.79, 9.54 & 11.46 µg/m<sup>3</sup> 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 34.21, 8.52, 7.58 & 8.73  $\mu\text{g}/\text{m}^3$  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 31.03, 7.63, 7.45 & 8.55  $\mu\text{g}/\text{m}^3$  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 142.95  $\mu\text{g}/\text{m}^3$ , maximum value 1931.60  $\mu\text{g}/\text{m}^3$  and average value 833.25  $\mu\text{g}/\text{m}^3$ . The Fugitive air quality 1<sup>st</sup> & 2<sup>nd</sup> Fortnight Results given in **Annexure-7 to Annexure-12**.

**5.2 STACK MONITORING**

Stack emission level was monitored all chimneys' PM values ( $\text{mg}/\text{Nm}^3$ ) 1<sup>st</sup> and 2<sup>nd</sup> Fortnight Minimum Value 10.95  $\text{mg}/\text{Nm}^3$ , Maximum Value 38.87  $\text{mg}/\text{Nm}^3$  & Average Value 24.67  $\text{mg}/\text{Nm}^3$ . 1<sup>st</sup> & 2<sup>nd</sup> 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 40.2 to 72.6 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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3<sup>rd</sup> Main Road, Basaveswara Badavane,

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Ph : 08394 355369

e-mail : gems\_hpt@yahoo.com

Website : www.gemslp.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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A1-Danapur Village**  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : **04.11.2025**  
 Report Number : **ULR-TC1618025000002852F**

### RESULTS

Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		SO <sub>2</sub> [µg/m <sup>3</sup> ]		NO <sub>2</sub> [µg/m <sup>3</sup> ]	
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
06.10.2025	07.10.2025	5528	54.35	100	11.18	60	8.31	80	9.61	80
07.10.2025	08.10.2025	5572	46.81		15.48		7.72		9.80	
13.10.2025	14.10.2025	5782	52.64		12.02		9.90		11.11	
14.10.2025	15.10.2025	5854	45.16		11.35		8.36		9.05	
22.10.2025	23.10.2025	6063	31.53		5.70		8.38		10.10	
23.10.2025	24.10.2025	6089	20.40		4.35		7.21		7.91	
27.10.2025	28.10.2025	6178	25.00		3.43		8.91		10.67	
28.10.2025	29.10.2025	6216	36.38		6.53		8.17		9.10	
<b>Average</b>			<b>39.03</b>				<b>8.76</b>			

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\*\***

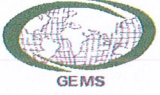
Analysed By  
Pavitra GR  
Chemist

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



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

### ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A1-Danapur Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : GEMS/BMMIL/NAAQ/2025-26/2852

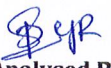
#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5528	0.16	4.0
2	07.10.2025	5572	<0.01	
3	13.10.2025	5782	0.12	
4	14.10.2025	5854	<0.01	
5	22.10.2025	6063	<0.01	
6	23.10.2025	6089	<0.01	
7	27.10.2025	6178	<0.01	
8	28.10.2025	6216	<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  
 Pavitra GR  
 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

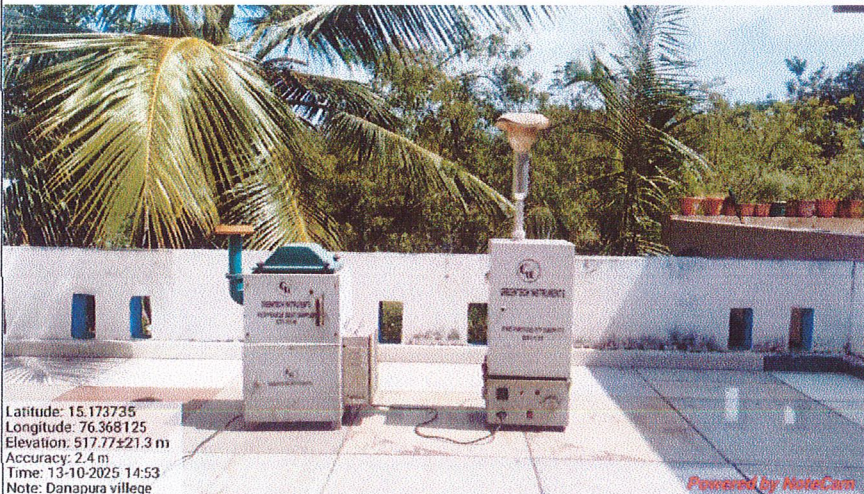


Latitude: 15.173779  
Longitude: 76.36799  
Elevation: 524.47±44.3 m  
Accuracy: 8.58 m  
Time: 06-10-2025 14:57  
Note: Danapura villege



Latitude: 15.173777  
Longitude: 76.36811  
Elevation: 524.27±22.0 m  
Accuracy: 59.38 m  
Time: 07-10-2025 14:32  
Note: Danapura villege

Powered by NoteCam



Latitude: 15.173735  
Longitude: 76.368125  
Elevation: 517.77±21.3 m  
Accuracy: 2.4 m  
Time: 13-10-2025 14:53  
Note: Danapura villege

Powered by NoteCam



Latitude: 15.173778  
Longitude: 76.368127  
Elevation: 517.77±20.9 m  
Accuracy: 5.106 m  
Time: 14-10-2025 14:23  
Note: Danapura villege

Powered by NoteCam

# AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

Near VRM Hospital



Latitude: 15.173743  
Longitude: 76.368086  
Elevation: 517.77±50.4 m  
Accuracy: 4.121 m  
Time: 22-10-2025 15:02  
Note: Danapura villege



Latitude: 15.173762  
Longitude: 76.368174  
Elevation: 517.77±35.7 m  
Accuracy: 173.4 m  
Time: 23-10-2025 14:47  
Note: Danapura villege

Powered by NoteCam



Latitude: 15.173751  
Longitude: 76.368198  
Elevation: 517.77±23.8 m  
Accuracy: 3.0 m  
Time: 27-10-2025 14:57  
Note: Danapura villege



Latitude: 15.173753  
Longitude: 76.368217  
Elevation: 517.77±18.7 m  
Accuracy: 4.509 m  
Time: 28-10-2025 15:03  
Note: Danapura villege

Powered by NoteCam



GEMS



NABET

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

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Website : www.gemsslip.in



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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A2-Mariyammanahalli Village  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : ULR-TC1618025000002853F

**RESULTS**

Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		SO <sub>2</sub> [µg/m <sup>3</sup> ]		NO <sub>2</sub> [µg/m <sup>3</sup> ]	
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
06.10.2025	07.10.2025	5529	43.03	100	9.84	60	9.27	80	10.99	80
07.10.2025	08.10.2025	5573	49.79		11.79		7.27		8.92	
13.10.2025	14.10.2025	5783	43.19		9.37		9.71		10.03	
14.10.2025	15.10.2025	5855	48.25		11.79		8.62		10.19	
22.10.2025	23.10.2025	6064	25.99		6.58		7.16		8.28	
23.10.2025	24.10.2025	6090	15.16		5.52		8.00		9.92	
27.10.2025	28.10.2025	6179	28.93		3.93		8.19		10.39	
28.10.2025	29.10.2025	6217	41.69		8.94		7.74		8.37	
Average			37.00		8.47		8.24		9.64	

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.
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**\*\*End of the Report\*\***

Analysed By  
Pavitra GR  
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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A2-Mariyammanahalli Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : GEMS/BMM/NAAQ/2025-26/2853

#### RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5529	<0.01	4.0
2	07.10.2025	5573	<0.01	
3	13.10.2025	5783	<0.01	
4	14.10.2025	5855	<0.01	
5	22.10.2025	6064	<0.01	
6	23.10.2025	6090	<0.01	
7	27.10.2025	6179	<0.01	
8	28.10.2025	6217	<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  
 Pavitra GR  
 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 : Mariyamma Halli

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



Latitude: 15.163302  
Longitude: 76.356115  
Elevation: 519.77±9.6 m  
Accuracy: 1.4 m  
Time: 06-10-2025 18:13  
Note: Mariyammahalli villege



Latitude: 15.163274  
Longitude: 76.356117  
Elevation: 522.97±10.7 m  
Accuracy: 1.6 m  
Time: 07-10-2025 17:59  
Note: Mariyammahalli villege



Latitude: 15.163307  
Longitude: 76.356134  
Elevation: 524.87±11.9 m  
Accuracy: 1.8 m  
Time: 13-10-2025 07:46  
Note: Mariyammahalli villege



Latitude: 15.163286  
Longitude: 76.356105  
Elevation: 524.37±12.6 m  
Accuracy: 3.855 m  
Time: 14-10-2025 08:01  
Note: Mariyammahalli villege

# AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

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



Latitude: 15.163272  
Longitude: 76.356098  
Elevation: 527.37±11.1 m  
Accuracy: 1.4 m  
Time: 22-10-2025 07:37  
Note: Mariyammanahalli vilage



Latitude: 15.1633  
Longitude: 76.356115  
Elevation: 524.27±12.4 m  
Accuracy: 4.02 m  
Time: 23-10-2025 08:12  
Note: Mariyammanahalli vilage

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Latitude: 15.163302  
Longitude: 76.356114  
Elevation: 521.57±10.3 m  
Accuracy: 4.008 m  
Time: 27-10-2025 17:52  
Note: Mariyammanahalli vilage



Latitude: 15.163282  
Longitude: 76.356126  
Elevation: 523.47±11.7 m  
Accuracy: 3.0 m  
Time: 28-10-2025 18:14  
Note: Mariyammanahalli vilage

Powered by NoteCam



# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3<sup>rd</sup> 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-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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A3-Hanumanahalli Village**  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : **04.11.2025**  
 Report Number : **ULR-TC1618025000002854F**

### RESULTS

Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		SO <sub>2</sub> [µg/m <sup>3</sup> ]		NO <sub>2</sub> [µg/m <sup>3</sup> ]	
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
06.10.2025	07.10.2025	5530	49.37	100	13.58	60	9.38	80	12.63	80
07.10.2025	08.10.2025	5574	51.25		11.91		9.77		11.21	
13.10.2025	14.10.2025	5784	55.76		13.27		8.39		10.26	
14.10.2025	15.10.2025	5856	44.82		12.73		8.42		9.68	
22.10.2025	23.10.2025	6065	27.19		9.87		8.60		10.36	
23.10.2025	24.10.2025	6092	20.31		5.83		8.43		8.79	
27.10.2025	28.10.2025	6180	23.81		5.50		9.51		11.39	
28.10.2025	29.10.2025	6218	36.44		8.30		8.00		9.24	
<b>Average</b>			<b>38.62</b>		<b>10.12</b>		<b>8.81</b>		<b>10.44</b>	

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  
Pavitra GR  
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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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.450003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A3-Hanumanahalli Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : GEMS/BMM/NAAQ/2025-26/2854


#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5530	0.12	4.0
2	07.10.2025	5574	<0.01	
3	13.10.2025	5784	0.10	
4	14.10.2025	5856	<0.01	
5	22.10.2025	6065	0.12	
6	23.10.2025	6092	<0.01	
7	27.10.2025	6180	<0.01	
8	28.10.2025	6218	<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  
 Pavitra GR  
 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: Hanumanahalli**  
**Address: BMM OHC Hospital Hanumanahalli Near STP**



Latitude: 15.183483  
Longitude: 76.375973  
Elevation: 509.56±11.2 m  
Accuracy: 4.434 m  
Time: 06-10-2025 15:10  
Note: hanumanahalli villege



Latitude: 15.183533  
Longitude: 76.376029  
Elevation: 513.26±13.3 m  
Accuracy: 100.8 m  
Time: 07-10-2025 14:58  
Note: hanumanahalli villege

Powered by NoteCam



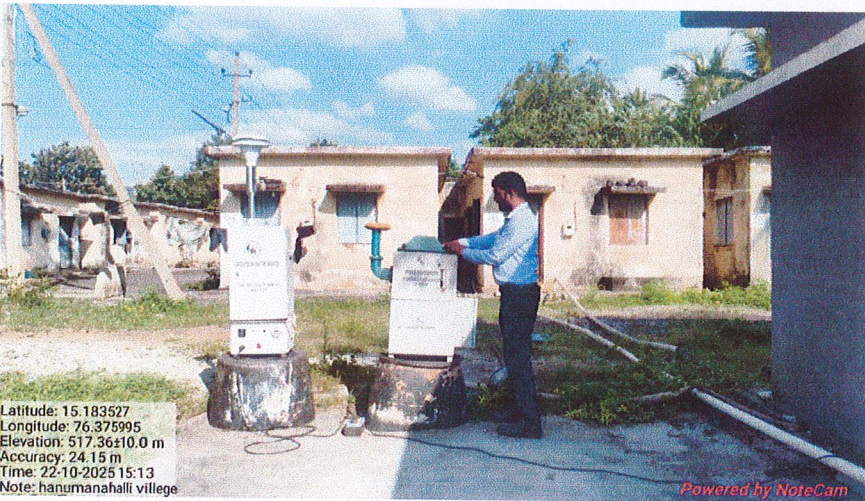
Latitude: 15.183534  
Longitude: 76.376027  
Elevation: 518.26±11.2 m  
Accuracy: 4.366 m  
Time: 13-10-2025 15:33  
Note: hanumanahalli villege



Latitude: 15.183531  
Longitude: 76.376006  
Elevation: 516.56±11.3 m  
Accuracy: 3.852 m  
Time: 14-10-2025 15:41  
Note: hanumanahalli villege

Powered by NoteCam

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



Latitude: 15.183527  
Longitude: 76.375995  
Elevation: 517.36±10.0 m  
Accuracy: 24.15 m  
Time: 22-10-2025 15:13  
Note: hanumanahalli villege

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Latitude: 15.183521  
Longitude: 76.37599  
Elevation: 515.26±10.3 m  
Accuracy: 4.587 m  
Time: 23-10-2025 15:23  
Note: hanumanahalli villege

Powered by NoteCam



Latitude: 15.183525  
Longitude: 76.376025  
Elevation: 516.36±12.8 m  
Accuracy: 3.108 m  
Time: 27-10-2025 15:52  
Note: hanumanahalli villege

Powered by NoteCam



Latitude: 15.183524  
Longitude: 76.376015  
Elevation: 519.96±10.3 m  
Accuracy: 1.4 m  
Time: 28-10-2025 15:36  
Note: hanumanahalli villege

Powered by NoteCam



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Ph : 08394 355369

e-mail : gems\_hpt@yahoo.com

Website : www.gemslp.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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A4-Galemmanagudi Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **04.11.2025**  
 Report Number : **ULR-TC1618025000002855F**

### RESULTS

Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		SO <sub>2</sub> [µg/m <sup>3</sup> ]		NO <sub>2</sub> [µg/m <sup>3</sup> ]	
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
06.10.2025	07.10.2025	5531	46.88	100	13.30	60	8.19	80	10.54	80
07.10.2025	08.10.2025	5575	50.71		16.44		10.69		13.26	
13.10.2025	14.10.2025	5785	48.96		11.75		9.69		11.83	
14.10.2025	15.10.2025	5857	54.79		11.46		9.40		10.83	
22.10.2025	23.10.2025	6066	33.37		10.25		12.14		12.32	
23.10.2025	24.10.2025	6093	27.39		7.86		9.08		10.24	
27.10.2025	28.10.2025	6181	25.64		4.57		8.78		10.87	
28.10.2025	29.10.2025	6219	32.80		10.71		8.32		11.82	
Average			40.07		10.79		9.54		11.46	

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\*\***

*By R*  
Analysed By  
Pavitra GR  
Chemist

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



### Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- 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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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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A4-Galemmanagudi Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : GEMS/BMM/NAAQ/2025-26/2855

#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5531	0.10	4.0
2	07.10.2025	5575	<0.01	
3	13.10.2025	5785	<0.01	
4	14.10.2025	5857	<0.01	
5	22.10.2025	6066	0.10	
6	23.10.2025	6093	0.12	
7	27.10.2025	6181	0.16	
8	28.10.2025	6219	0.14	

**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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*PGR*  
 Analysed By  
 Pavitra GR  
 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: 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



Latitude: 15.192243  
Longitude: 76.376823  
Elevation: 515.25±16.2 m  
Accuracy: 1.6 m  
Time: 22-10-2025 16:47  
Note: Galemmanagudi villege

Powered by NoteCam



Latitude: 15.192251  
Longitude: 76.376817  
Elevation: 514.65±13.7 m  
Accuracy: 1.6 m  
Time: 23-10-2025 16:27  
Note: Galemmanagudi villege

Powered by NoteCam



Latitude: 15.192218  
Longitude: 76.376835  
Elevation: 512.35±13.4 m  
Accuracy: 154.0 m  
Time: 27-10-2025 16:57  
Note: Galemmanagudi villege

Powered by NoteCam



Latitude: 15.192205  
Longitude: 76.376827  
Elevation: 505.25±14.1 m  
Accuracy: 86.7 m  
Time: 28-10-2025 17:08  
Note: Galemmanagudi villege

Powered by NoteCam



# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)  
 3<sup>rd</sup> Main Road, Basaveswara Badavane,  
**HOSAPETE - 583201**, Dist., Vijayanagara (Karnataka)  
 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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A5-G Nagalapura Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **04.11.2025**  
 Report Number : **ULR-TC1618025000002856F**

### RESULTS

Parameters			PM10 [µg/m3]		PM2.5 [µg/m3]		SO2 [µg/m3]		NO2 [µg/m3]	
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
06.10.2025	07.10.2025	5532	42.64	100	8.86	60	7.18	80	8.49	80
07.10.2025	08.10.2025	5576	39.35		10.99		8.32		9.37	
13.10.2025	14.10.2025	5786	37.30		10.77		7.18		9.91	
14.10.2025	15.10.2025	5858	49.35		9.72		7.65		8.18	
22.10.2025	23.10.2025	6067	34.63		8.99		6.38		7.81	
23.10.2025	24.10.2025	6094	17.45		5.78		8.78		9.40	
27.10.2025	28.10.2025	6182	21.44		5.40		7.72		8.65	
28.10.2025	29.10.2025	6220	31.52		7.66		7.45		8.03	
<b>Average</b>			<b>34.21</b>				<b>8.52</b>			

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\*\***

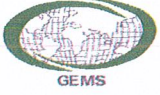
*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A5- G Nagalapura Village**  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : **04.11.2025**  
 Report Number : **GEMS/BMMIL/ NAAQ /2025-26/2856**

#### RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5532	<0.01	4.0
2	07.10.2025	5576	<0.01	
3	13.10.2025	5786	<0.01	
4	14.10.2025	5858	<0.01	
5	22.10.2025	6067	<0.01	
6	23.10.2025	6094	<0.01	
7	27.10.2025	6182	<0.01	
8	28.10.2025	6220	<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  
 Pavitra GR  
 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



Latitude: 15.113844  
Longitude: 76.392803  
Elevation: 538.99±14.9 m  
Accuracy: 9.561 m  
Time: 06-10-2025 02:07  
Note: G nagalapur villege

Powered by AirtelCam



Latitude: 15.113822  
Longitude: 76.392806  
Elevation: 540.09±12.4 m  
Accuracy: 4.399 m  
Time: 07-10-2025 01:47  
Note: G nagalapur villege

Powered by AirtelCam



Latitude: 15.113841  
Longitude: 76.3928  
Elevation: 541.59±14.5 m  
Accuracy: 3.045 m  
Time: 13-10-2025 02:08  
Note: G nagalapur villege

Powered by AirtelCam



Latitude: 15.113865  
Longitude: 76.392815  
Elevation: 540.49±20.1 m  
Accuracy: 4.1 m  
Time: 14-10-2025 01:42  
Note: G nagalapur villege

Powered by AirtelCam

# 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



Latitude: 15.113828  
Longitude: 76.392821  
Elevation: 538.09±12.8 m  
Accuracy: 100.2 m  
Time: 22-10-2025 14:00  
Note: G nagalapur villege

Powered by NoteCam



Latitude: 15.113834  
Longitude: 76.392795  
Elevation: 537.49±13.4 m  
Accuracy: 3.157 m  
Time: 23-10-2025 14:18  
Note: G nagalapur villege

Powered by NoteCam



Latitude: 15.113816  
Longitude: 76.392826  
Elevation: 539.49±13.0 m  
Accuracy: 3.758 m  
Time: 27-10-2025 14:27  
Note: G nagalapur villege

Powered by NoteCam



Latitude: 15.113828  
Longitude: 76.392812  
Elevation: 538.89±12.4 m  
Accuracy: 3.502 m  
Time: 28-10-2025 13:59  
Note: G nagalapur villege

Powered by NoteCam



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e-mail : gems\_hpt@yahoo.com

Website : www.gemslip.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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025**  
 Location : **A6-Gunda Tanda Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **04.11.2025**  
 Report Number : **ULR-TC1618025000002857F**

### RESULTS

Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		SO <sub>2</sub> [µg/m <sup>3</sup> ]		NO <sub>2</sub> [µg/m <sup>3</sup> ]	
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
06.10.2025	07.10.2025	5533	44.74	100	7.70	60	7.18	80	7.90	80
07.10.2025	08.10.2025	5577	40.89		7.92		7.86		8.99	
13.10.2025	14.10.2025	5787	39.76		8.50		8.97		10.02	
14.10.2025	15.10.2025	5859	32.08		7.35		7.05		7.36	
22.10.2025	23.10.2025	6068	24.08		8.66		7.30		9.13	
23.10.2025	24.10.2025	6095	14.18		5.70		6.07		7.90	
27.10.2025	28.10.2025	6183	20.05		6.46		7.99		8.29	
28.10.2025	29.10.2025	6221	32.46		8.72		7.18		8.84	
Average			31.03		7.63		7.45		8.55	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S./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\*\***

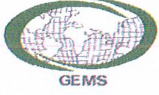
*GR*  
Analysed By  
Pavitra GR  
Chemist

*KRR*  
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 advertsing media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



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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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Location : A6-Gunda Tanda Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 04.11.2025  
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/2857

#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	06.10.2025	5533	<0.01	4.0
2	07.10.2025	5577	<0.01	
3	13.10.2025	5787	<0.01	
4	14.10.2025	5859	<0.01	
5	22.10.2025	6068	<0.01	
6	23.10.2025	6095	<0.01	
7	27.10.2025	6183	<0.01	
8	28.10.2025	6221	<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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*PGR*  
 Analysed By  
 Pavitra GR  
 Chemist

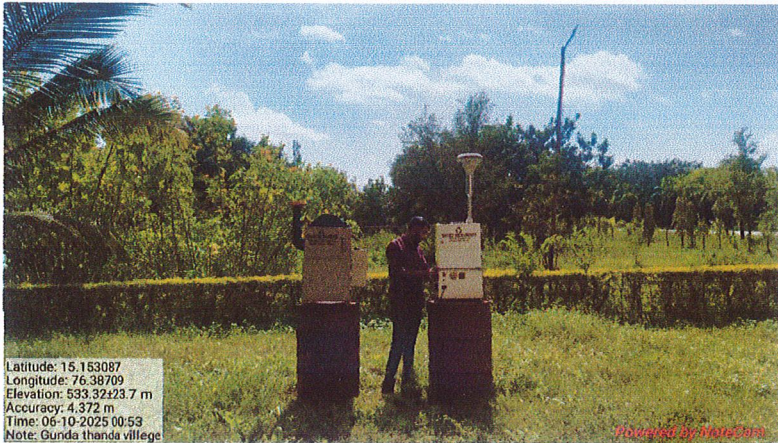
*KRR*  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager



- 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



Latitude: 15.153087  
Longitude: 76.38709  
Elevation: 533.32±23.7 m  
Accuracy: 4.372 m  
Time: 06-10-2025 00:53  
Note: Gunda thanda villege

Powered by: NovusSat



Latitude: 15.153158  
Longitude: 76.387034  
Elevation: 531.12±17.5 m  
Accuracy: 3.021 m  
Time: 07-10-2025 00:31  
Note: Gunda thanda villege

Powered by: NovusSat



Latitude: 15.153085  
Longitude: 76.386977  
Elevation: 529.22±23.1 m  
Accuracy: 8.998 m  
Time: 13-10-2025 11:58  
Note: Gunda thanda villege

Powered by: NovusSat



Latitude: 15.153192  
Longitude: 76.387015  
Elevation: 528.82±18.1 m  
Accuracy: 4.336 m  
Time: 14-10-2025 00:08  
Note: Gunda thanda villege

Powered by: NovusSat

# AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's  
Gunda Thanda



Latitude: 15.153182  
Longitude: 76.386979  
Elevation: 528.12±23.6 m  
Accuracy: 7.776 m  
Time: 22-10-2025 00:22  
Note: Gunda thanda villege



Latitude: 15.153188  
Longitude: 76.387042  
Elevation: 532.52±21.1 m  
Accuracy: 3.522 m  
Time: 23-10-2025 11:49  
Note: Gunda thanda villege

Approved by NATA/San



Latitude: 15.153212  
Longitude: 76.387048  
Elevation: 529.52±22.6 m  
Accuracy: 70.4 m  
Time: 27-10-2025 00:13  
Note: Gunda thanda villege



Latitude: 15.153185  
Longitude: 76.387038  
Elevation: 529.92±22.4 m  
Accuracy: 3.328 m  
Time: 28-10-2025 11:43  
Note: Gunda thanda villege

Approved by NATA/San



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

## FORTNIGHTLY FUGITIVE AIR QUALITY MONITORING DATA

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500003634 DATED:01.07.2025
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	:	<b>OCTOBER-2025(1<sup>st</sup> Fort Night)</b>
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4)1999 RA 2014
9	Report Issued Date	:	<b>04.11.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM /2025-26/2927</b>

### RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>I. Beneficiation Plant-1</b>						
1.	Main Canteen	5638	08.10.2025	09.10.2025	536.49	2000
2.	Near Iron Ore Bottom Hopper	5636	08.10.2025	09.10.2025	550.44	2000
3.	Iron Ore Screen	5637	08.10.2025	09.10.2025	1198.51	2000
<b>II. Pellet Plant-1</b>						
4.	Near Pellet Plant	5639	08.10.2025	09.10.2025	1734.46	2000
5.	Annual Cooler Pellet Discharge bin	5640	08.10.2025	09.10.2025	1005.12	2000
6.	Pellet Stock Yard	5681	09.10.2025	10.10.2025	382.29	2000
<b>III. Sponge Iron Division-1 (kiln 1 &amp; 2)</b>						
7.	Control Room SID-1	5701	10.10.2025	11.10.2025	863.31	2000
8.	Near Product bin	5702	10.10.2025	11.10.2025	573.55	2000
9.	Coal Feeding Area	5703	10.10.2025	11.10.2025	936.84	2000
<b>IV. Induction Furnace &amp; Rolling Mill - 1</b>						
10.	IF Office	5682	09.10.2025	10.10.2025	465.97	2000
11.	TMT Stock Yard	5683	09.10.2025	10.10.2025	358.27	2000
12.	RML Gasifier	5684	09.10.2025	10.10.2025	478.41	2000
<b>V. Power Plant 25 MW-1</b>						
13.	25 MW ESP	5704	10.10.2025	11.10.2025	1803.93	2000
14.	25 MW ACC	5737	11.10.2025	11.10.2025	299.65	2000
<b>VI. Site Services</b>						
15.	PGP- coal handling system	5685	09.10.2025	10.10.2025	280.27	2000
16.	IF Slag Crusher	5705	10.10.2025	11.10.2025	359.54	2000
17.	Main Gate	5738	11.10.2025	11.10.2025	667.64	2000
18.	Fly ash Dump	5567	07.10.2025	08.10.2025	609.50	2000

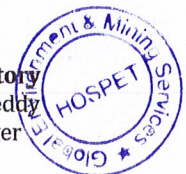
Note: SPM- Suspended Particulate matter. ( $\mu\text{g}/\text{m}^3$ ), INFERENCE: The Measured Values are within the limits.

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Enviro Instrumets/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	Calibration Due Date	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

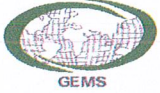
**\*\*End of the Report\*\***

*P. GR*  
Analysed By  
Pavitra GR  
Chemist

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



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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ANNEXURE-08  
GEMS-LD/TF/11/01

## FORTNIGHTLY FUGITIVE AIR QUALITY MONITORING DATA

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500003634 DATED:01.07.2025
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	:	<b>OCTOBER-2025(2<sup>nd</sup> Fort Night)</b>
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4)1999 RA 2014
9	Report Issued Date	:	<b>04.11.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/3117</b>

### RESULTS

Sl. NO.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>I. Beneficiation Plant-1</b>						
1.	Main Canteen	6058	22.10.2025	23.10.2025	1041.72	2000
2.	Near Iron Ore Bottom Hopper	6057	22.10.2025	23.10.2025	1097.97	2000
3.	Iron Ore Screen	6056	22.10.2025	23.10.2025	292.18	2000
<b>II. Pellet Plant-1</b>						
4.	Near Pellet Plant	6054	22.10.2025	23.10.2025	1778.73	2000
5.	Annual Cooler Pellet Discharge bin	6055	22.10.2025	23.10.2025	1792.60	2000
6.	Pellet Stock Yard	6104	23.10.2025	24.10.2025	147.44	2000
<b>III. Sponge Iron Division-1(kiln 1 &amp; 2)</b>						
7.	Control Room SID-I	6112	24.10.2025	25.10.2025	389.72	2000
8.	Near Product bin	6113	24.10.2025	25.10.2025	365.45	2000
9.	Coal Feeding Area	6114	24.10.2025	25.10.2025	458.45	2000
<b>IV. Induction Furnace &amp; Rolling Mill</b>						
10.	IF Office	6103	23.10.2025	24.10.2025	158.55	2000
11.	TMT Stock Yard	6102	23.10.2025	24.10.2025	1040.12	2000
12.	RML Gasifier	6101	23.10.2025	24.10.2025	641.73	2000
<b>V. Power Plant 25 MW-1</b>						
13.	25 MW ESP	6115	24.10.2025	25.10.2025	437.33	2000
14.	25 MW ACC	6170	27.10.2025	28.10.2025	233.32	2000
<b>VI. Site Services</b>						
15.	PGP- Coal handling system	6100	23.10.2025	24.10.2025	184.05	2000
16.	IF Slag Crusher	6116	24.10.2025	25.10.2025	361.20	2000
17.	Main Gate	6171	27.10.2025	28.10.2025	278.67	2000
18.	Fly ash Dump	6147	25.10.2025	25.10.2025	512.69	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	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	Calibration Due Date	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

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

Analysed By  
Pavitra GR  
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



GEMS



NABET

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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.450003634 DATED:01.07.2025
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	:	<b>OCTOBER-2025(1<sup>st</sup> Fort Night)</b>
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	<b>04.11.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/2987</b>

**RESULTS**

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>Blast Furnace</b>						
1.	RMHS	5739	11.10.2025	11.10.2025	619.70	2000
2.	Stock House	5740	11.10.2025	11.10.2025	1855.96	2000
3.	Gas Network Area	5741	11.10.2025	11.10.2025	453.66	2000
4.	Blower Area	5773	13.10.2025	14.10.2025	393.20	2000
5.	Gas Cleaning plant (GCP)	5774	13.10.2025	14.10.2025	1308.50	2000
6.	Stove Area	5775	13.10.2025	14.10.2025	1621.93	2000
7.	Control ROOM (CR)	5776	13.10.2025	14.10.2025	1760.69	2000
8.	Pig Costing Machine (PCM)	5845	14.10.2025	15.10.2025	272.51	2000
9.	Slag Granulation Plant (SGP)	5846	14.10.2025	15.10.2025	400.54	2000
10.	Cost House Area	5777	13.10.2025	14.10.2025	1818.20	2000
<b>SMS Area</b>						
1.	Stock House/Vibro Feeders	5847	14.10.2025	15.10.2025	1656.33	2000
2.	Ladle Tapping	5848	14.10.2025	15.10.2025	415.58	2000
3.	Slag pouring Area	5849	14.10.2025	15.10.2025	1368.36	2000
<b>MBM</b>						
1.	Near Re-Heating Furnace	5873	15.10.2025	16.10.2025	219.40	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	<b>Instrument Name</b>	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	<b>Make &amp; Model</b>	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	<b>Serial No</b>	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	<b>Calibration Date</b>	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	<b>Calibration Due Date</b>	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

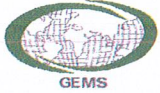
**\*\*End of the Report\*\***

*PGR*  
Analysed By  
Pavitra GR  
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



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

## FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.450003634 DATED:01.07.2025
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	:	<b>OCTOBER-2025(1<sup>st</sup>Fort Night)</b>
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	<b>04.11.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/2804</b>

### RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>I. Beneficiation Plant-II</b>						
1.	Ball Mill Area (Zero Meter)	5456	01.10.2025	02.10.2025	239.61	2000
2.	Near Cone Crusher	5458	01.10.2025	02.10.2025	797.21	2000
3.	Concentrate Thickner	5457	01.10.2025	02.10.2025	276.91	2000
<b>II. Pellet Plant</b>						
4.	PR-6	5459	01.10.2025	02.10.2025	684.08	2000
5.	Annual Cooler Pellet Discharge bin	5460	01.10.2025	02.10.2025	1001.01	2000
6.	Additive Grinding Building	5746	03.10.2025	04.10.2025	1564.47	2000
<b>III. Sponge Iron Division -2 (Kiln 3 &amp; 4)</b>						
7.	Control room	5491	03.10.2025	04.10.2025	356.69	2000
8.	Near Weigh bridge (dispatch)	5501	04.10.2025	04.10.2025	469.66	2000
9.	Pellet Storage bin	5749	03.10.2025	04.10.2025	879.68	2000
10.	Transfer House area	5477	03.10.2025	04.10.2025	739.38	2000
11.	Production Separation Bin-PSB	5748	03.10.2025	04.10.2025	958.38	2000
<b>IV. Sponge Iron Division -3 (Kiln 5 &amp; 6)</b>						
12.	Near Control room	5502	04.10.2025	04.10.2025	574.28	2000
13.	Near Coal Crusher	5504	04.10.2025	04.10.2025	1792.96	2000
14.	Near Product bin	5503	04.10.2025	04.10.2025	1807.07	2000
15.	Coal Dryer	5519	06.10.2025	07.10.2025	589.60	2000
<b>V. Wagon Tipper/RMHS</b>						
16.	Near Tipping point	5505	04.10.2025	04.10.2025	1735.83	2000
17.	Monsoon Shed (CPU)	5520	06.10.2025	07.10.2025	841.71	2000
18.	MCC Room (2 <sup>nd</sup> Gate)	5521	06.10.2025	07.10.2025	275.91	2000
<b>Power plant -70M</b>						
19.	70MW-DM Plant (Near R.O. Plant)	5522	06.10.2025	07.10.2025	346.75	2000
20.	2 <sup>nd</sup> gateweigh bridge Near Coal Screen	5563	07.10.2025	08.10.2025	1154.10	2000
21.	CFBC boiler	5523	06.10.2025	07.10.2025	981.26	2000
<b>VII. 2X70MW Power Plant</b>						
22.	Near Boiler	5566	07.10.2025	08.10.2025	1033.35	2000
23.	Near Coal storage Shed	5564	07.10.2025	08.10.2025	1729.59	2000
24.	Dolochar Processing Area	5565	07.10.2025	08.10.2025	303.80	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	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	Calibration Due Date	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

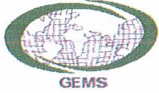
\*\*End of the Report\*\*

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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GEMS



NABET

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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.4500003634 DATED:01.07.2025
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	:	<b>OCTOBER-2025(2<sup>ND</sup> Fort Night)</b>
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	<b>04.11.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/3057</b>

**RESULTS**

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>I. Beneficiation Plant-II</b>						
1.	Ball Mill Area (Zero Meter)	5934	16.10.2025	17.10.2025	239.96	2000
2.	Near Cone Crusher	5936	16.10.2025	17.10.2025	700.86	2000
3.	Concentrate Thickner	5935	16.10.2025	17.10.2025	292.26	2000
<b>II. Pellet Plant-I</b>						
4.	PR-6	5937	16.10.2025	17.10.2025	1052.43	2000
5.	Annual Cooler Pellet Discharge bin	5938	16.10.2025	17.10.2025	1515.70	2000
6.	Additive Grinding Building	5980	18.10.2025	18.10.2025	524.85	2000
<b>III. Sponge Iron Division -2 (Kiln 3&amp;4)</b>						
7.	Control room	5954	17.10.2025	18.10.2025	1931.60	2000
8.	Near Weigh bridge (dispatch)	5955	17.10.2025	18.10.2025	438.28	2000
9.	Pellet Storage bin	5958	17.10.2025	18.10.2025	1021.80	2000
10.	Transfer House area	5956	17.10.2025	18.10.2025	441.92	2000
11.	Production Separation Bin-PSB	5957	17.10.2025	18.10.2025	633.30	2000
<b>IV. Sponge Iron Division -2 (Kiln 5&amp;6)</b>						
12.	Near Control room	5981	18.10.2025	18.10.2025	1635.93	2000
13.	Near Coal Crusher	5983	18.10.2025	18.10.2025	1347.80	2000
14.	Near Product bin	5982	18.10.2025	18.10.2025	1261.76	2000
15.	Coal Drier	5984	18.10.2025	18.10.2025	446.00	2000
<b>V. Wagon Tipper/RMHS</b>						
16.	Near Tipping point	6017	20.10.2025	21.10.2025	1622.70	2000
17.	Monsoon Shed (CPU)	6018	20.10.2025	21.10.2025	1590.11	2000
18.	MCC Room (2 <sup>nd</sup> Gate)	6019	20.10.2025	21.10.2025	1733.09	2000
<b>VI. Power Plant-70 MW</b>						
19.	70MW-DM Plant (Near R.O. Plant)	6020	20.10.2025	21.10.2025	427.39	2000
20.	2 <sup>nd</sup> gate weigh bridge Near Coal Screen	6141	25.10.2025	25.10.2025	946.79	2000
21.	CFBC boiler	6021	20.10.2025	21.10.2025	765.28	2000
<b>VII. 2X70MW Power Plant</b>						
22.	Near Boiler	6142	25.10.2025	25.10.2025	645.70	2000
23.	Near Coal storage Shed	6143	25.10.2025	25.10.2025	1785.20	2000
24.	CPP Dolochar Process Area	6144	25.10.2025	25.10.2025	232.29	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	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	Calibration Due Date	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

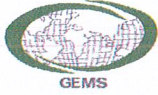
\*\*End of the Report\*\*

*PGR*  
Analysed By  
Pavitra GR  
Chemist

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



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ANNEXURE-12  
GEMS-LD/TF/11/01

## FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025(2<sup>nd</sup> Fort Night)**
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Method adopted : IS 5182 (Part 4): 1999 RA 2014
- 9 Report Issued Date : **04.11.2025**
- 10 Report Number : **GEMS/BMMIL/FM/2025-26/3146**

### RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ( $\mu\text{g}/\text{m}^3$ )	Standard
<b>Blast Furnace</b>						
1.	RMHS	6172	27.10.2025	28.10.2025	226.95	2000
2.	Stock House	6173	27.10.2025	28.10.2025	687.41	2000
3.	Gas Network Area	6174	27.10.2025	28.10.2025	448.75	2000
4.	Blower Area	6208	28.10.2025	29.10.2025	142.95	2000
5.	Gas Cleaning plant (GCP)	6209	28.10.2025	29.10.2025	1698.58	2000
6.	Stove Area	6210	28.10.2025	29.10.2025	343.55	2000
7.	Control ROOM (CR)	6211	28.10.2025	29.10.2025	488.03	2000
8.	Pig Costing Machine (PCM)	6232	29.10.2025	30.10.2025	156.36	2000
9.	Slag Granulation Plant (SGP)	6233	29.10.2025	30.10.2025	281.33	2000
10.	Cost House Area	6212	28.10.2025	29.10.2025	1613.07	2000
<b>SMS Area</b>						
1.	Stock House/Vibro Feeders	6234	29.10.2025	30.10.2025	1689.61	2000
2.	Ladle Tapping	6235	29.10.2025	30.10.2025	391.15	2000
3.	Slag pouring Area	6236	29.10.2025	30.10.2025	1876.15	2000
<b>MBM</b>						
1.	Near Re-Heating Furnace	6247	30.10.2025	31.10.2025	433.77	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	30.10.2025	30.10.2025	30.10.2025	25.04.2025	25.04.2025
5	Calibration Due Date	29.11.2026	29.11.2026	29.11.2026	24.04.2026	24.04.2026

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

Analysed By  
Pavitra GR  
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.4500003634 DATED:01.07.2025
- 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 : OCTOBER-2025
- 11 Date of Sample Received : 04.10.2025&17.10.2025
- 12 Date of Sample Analysis : 06.10.2025&18.10.2025
- 13 Date of Sample Analysis completion : 06.10.2025&18.10.2025
- 14 Report Issued Date : 04.11.2025
- 15 Report Number : ULR-TC1618025000002836F

### 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
				1 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				04.10.2025	17.10.2025	
	Date of Monitoring			5506	5959	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	61	59	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.95	5.30	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr	325993	290322	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	290818	260110	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	25.07	28.71	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm <sup>3</sup>	119	123	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	12	14	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.016	0.014	1

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

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

Analysed By  
Pavitra GR  
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.
2. 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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
4. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
5. Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
6. Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



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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.4500003634 DATED:01.07.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Vayubodhak/ <b>VBSS2</b> Sl. No: Stack Monitoring Kit/ <b>32308</b>
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	:	<b>2X100 TPD Sponge iron plant Kiln 1 &amp; 2</b>
10	Month of Sampling	:	<b>OCTOBER-2025</b>
11	Date of Sample Received	:	09.10.2025&24.10.2025
12	Date of Sample Analysis	:	10.10.2025&25.10.2025
13	Date of Sample Analysis completion	:	10.10.2025&25.10.2025
14	Report Issued Date	:	<b>04.11.2025</b>
15	Report Number	:	<b>ULR-TC161802500002969F</b>

#### Stack Details

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

#### Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				09.10.2025	24.10.2025	
	Date of Monitoring			5692	6120	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	25	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	174	177	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.15	6.76	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr	69541	76517	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	46349	50551	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	17.91	14.37	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm <sup>3</sup>	293	302	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	34	37	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.139	0.124	1

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

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

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



#### Note:

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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

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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.4500003634 DATED:01.07.2025
- 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 : OCTOBER-2025 (1st Fort Night)
- 10 Date of Sample Received : -
- 11 Date of Sample Analysis : -
- 12 Date of Sample Analysis completion : -
- 13 Report Issued Date : 04.11.2025
- 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 <sup>3</sup>	KSPCB Std mg/N m <sup>3</sup>
<b>Induction Furnace 1 &amp; 2</b>											
1	Induction Furnace 1	-	-	Electric	-	-	-	30	1.2	-	150
2	Induction Furnace 2	-	-	Power	-	-	-	30	1.3	-	150

Sl. No	Induction Furnace 1 & 2	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Induction Furnace 1	-	-	-
2	Induction Furnace 2	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

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-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.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025**
- 11 Date of Sample Received : 10.10.2025&23.10.2025
- 12 Date of Sample Analysis : 11.10.2025&21.10.2025
- 13 Date of Sample Analysis completion : 11.10.2025&21.10.2025
- 14 Report Issued Date : **04.11.2025**
- 15 Report Number : **ULR-TC1618025000002974F**

**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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				10.10.2025	23.10.2025	
	Date of Monitoring					
	Sample Code			5709	6096	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	79	74	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.39	5.68	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr	9755	10286	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	8646	8824	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	38.87	36.30	50
7	Sulphur Dioxide	IS: 11255 (Part 2); (RA 2014)	mg/Nm <sup>3</sup>	36	32	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	115	108	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.269	0.252	1

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

Analysed By  
Pavitra GR  
Chemist

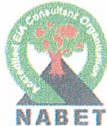
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

**Note:**

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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.4500003634 DATED:01.07.2025
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	:	OCTOBER-2025
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date of Sample Analysis completion	:	-
14	Report Issued Date	:	04.11.2025
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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				-	-	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C			-
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 <sup>3</sup> /hr			-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	Shutdown	Shutdown	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>			50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm <sup>3</sup>			NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>			NS
9	Carbon Monoxide	GEMS/SOP/69	%			NS

Note: NS- Not Specified. RA: Reaffirmed,

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

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



#### Note:

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TC-16180

**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.4500003634 DATED:01.07.2025  
 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 : **OCTOBER-2025(1st Fort Night)**  
 10 Date of Sample Received : 13.10.2025  
 11 Date of Sample Analysis : 14.10.2025  
 12 Date of Sample Analysis completion : 14.10.2025  
 13 Report Issued Date : **04.11.2025**  
 14 Report Number : **ULR-TC1618025000003005F**

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Beneficiation Plant - I</b>											
1	Iron Ore dump hopper	13.10.2025	5779	-	29	35	4.54	30	0.4	13.51	50
2	Iron Ore Screen bin	13.10.2025	5780	-	30	34	4.60	30	0.4	15.11	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Iron Ore dump hopper	2056	1980	-
2	Iron Ore Screen bin	2079	2008	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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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 e-mail : gems\_hpt@yahoo.com  
 Website : www.gemslp.in



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

## Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025 (1st Fort Night)**
- 10 Date of Sample Received : 14.10.2025
- 11 Date of Sample Analysis : 15.10.2025
- 12 Date of Sample Analysis completion : 15.10.2025
- 13 Report Issued Date : **04.11.2025**
- 14 Report Number : **ULR-TC1618025000003018F**

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>RMHS</b>											
3	Screen, Coal Crusher (CPU)	14.10.2025	5852	-	30	37	4.85	35	1.5	35.22	50
4	Main Crusher	14.10.2025	5853	-	29	34	4.49	25	0.5	12.90	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	30869	29553	-
4	Main Crusher	3177	3069	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

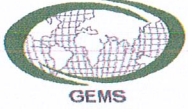
*Pavitra GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



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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.4500003634 DATED:01.07.2025                               |
| 3  | Sample collected by                | : | Global Environment & Mining Services LLP, Hosapete                     |
| 4  | Particulars of sample collected    | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ <b>32308</b> |
| 5  | Instrument Details                 | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026       |
| 6  | Discipline                         | : | Chemical   |
| 7  | Group                              | : | Atmospheric Pollution  |
| 8  | Sample Type                        | : | Stack Monitoring   |
| 9  | Month of Sampling                  | : | <b>OCTOBER-2025(1st Fort Night)</b>                                    |
| 10 | Date of Sample Received            | : | 04.10.2025 & 06.10.2025  |
| 11 | Date of Sample Analysis            | : | 04.10.2025 & 06.10.2025  |
| 12 | Date of Sample Analysis completion | : | 05.10.2025 & 07.10.2025  |
| 13 | Report Issued Date                 | : | <b>04.11.2025</b>  |
| 14 | Report Number                      | : | <b>ULR-TC1618025000002837F</b>   |

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Pellet Plant -I</b>											
5	AGB Main Bag Filter	04.10.2025	5507	-	28	32	4.50	6.5	0.50	20.39	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	04.10.2025	5508	-	30	33	4.71	3.0	0.30	23.75	50
7	Bentonite Powder bin top bag filter	04.10.2025	5509	-	34	28	4.87	3.0	0.30	18.95	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	06.10.2025	5516	-	27	38	5.04	7.0	0.50	25.24	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
5	AGB Main Bag Filter	3181	3105	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1199	1163	-
7	Bentonite Powder bin top bag filter	1240	1223	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3562	3409	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*PGR*  
**Analysed By**  
Pavitra GR  
Chemist

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



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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.4500003634 DATED:01.07.2025
- 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 : OCTOBER-2025(1st Fort Night)
- 10 Date of Sample Received : 11.10.2025 & 13.10.2025
- 11 Date of Sample Analysis : 13.10.2025 & 14.10.2025
- 12 Date of Sample Analysis completion : 14.10.2025 & 15.10.2025
- 13 Report Issued Date : 04.11.2025
- 14 Report Number : ULR-TC1618025000002989F

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>2 X 100 TPD Sponge Iron Kiln 1 &amp; 2</b>											
10	Cooler-1 Discharge & Blending Chute	11.10.2025	5743	---	28	33	4.89	30	1.20	18.62	50
11	Cooler-2 Discharge	11.10.2025	5744	---	29	34	4.80	30	1.20	25.09	50
12	Intermediate Bin & Blending	11.10.2025	5745	---	29	35	4.56	30	1.20	21.71	50
13	Product House	13.10.2025	5790	---	28	34	4.56	30	1.20	24.13	50

Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	19928	19379	-
11	Cooler-2 Discharge	19556	18893	-
12	Intermediate Bin & Blending	18570	17875	-
13	Product House	18574	17982	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)  
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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.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025 (2<sup>nd</sup> Fort Night)**
- 10 Date of Sample Received : -
- 11 Date of Sample Analysis : -
- 12 Date of Sample Analysis completion : -
- 13 Report Issued Date : **04.11.2025**
- 14 Report Number : **ULR-TC1618025000002768F**

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Induction Furnance 1 &amp; 2</b>											
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 <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Induction Furnance 1	-	-	-
2	Induction Furnance 2	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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)

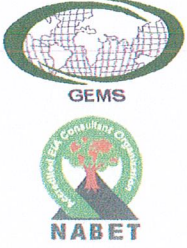
**\*\*End of the Report\*\***

*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

**Note:**

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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TC-16180

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

### Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025(2nd Fort Night)**
- 10 Date of Sample Received : 28.10.2025
- 11 Date of Sample Analysis : 29.10.2025
- 12 Date of Sample Analysis completion : 29.10.2025
- 13 Report Issued Date : **04.11.2025**
- 14 Report Number : **ULR-TC1618025000003143F**

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Beneficiation Plant</b>											
1	Iron Ore dump hopper	28.10.2025	6166	---	25	29	4.61	30	0.40	15.27	50
2	Iron Ore Screen bin	28.10.2025	6167	---	26	30	4.51	30	0.40	12.81	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Iron Ore dump hopper	2088	2048	-
2	Iron Ore Screen bin	2041	1995	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*Pavitra GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

*K. Ramakrishna Reddy*  
**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.4500003634 DATED:01.07.2025
- 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 : OCTOBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 27.10.2025
- 11 Date of Sample Analysis : 28.10.2025
- 12 Date of Sample Analysis completion : 28.10.2025
- 13 Report Issued Date : 04.11.2025
- 14 Report Number : ULR-TC1618025000003140F

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>RMHS</b>											
3	Screen, Coal Crusher(CPU)	27.10.2025	6150	-	27	36	4.91	30	1.50	29.57	50
4	Main Crusher	27.10.2025	6152	-	26	31	4.39	25	0.50	10.95	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	31238	30019	-
4	Main Crusher	3100	3024	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*BGR*  
Analysed By  
Pavitra GR  
Chemist

*KR*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

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TC-16180

**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.4500003634 DATED:01.07.2025
- 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 : **OCTOBER-2025(2nd Fort Night)**
- 10 Date of Sample Received : 17.10.2025&18.10.2025
- 11 Date of Sample Analysis : 18.10.2025&20.10.2025
- 12 Date of Sample Analysis completion : 18.10.2025&20.10.2025
- 13 Report Issued Date : **04.11.2025**
- 14 Report Number : **ULR-TC1618025000003059F**

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Pellet Plant-I</b>											
5	AGB Main Bag Filter	17.10.2025	5940	---	27	34	4.81	6.5	0.50	18.33	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	17.10.2025	5941	---	25	35	4.93	3.0	0.30	21.83	50
7	Bentonite Powder bin top bag filter	17.10.025	5942	---	29	34	4.98	3.0	0.30	17.51	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	18.10.2025	5952	---	29	37	4.95	7.0	0.50	27.70	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
5	AGB Main Bag Filter	3401	3293	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1254	1209	-
7	Bentonite Powder bin top bag filter	1266	1223	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3503	3360	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*BGR*  
**Analysed By**  
Pavitra GR  
Chemist

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



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TC-16180

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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025(2nd Fort Night)  
 10 Date of Sample Received : 24.10.2025&25.10.2025  
 11 Date of Sample Analysis : 25.10.2025&27.10.2025  
 12 Date of Sample Analysis completion : 25.10.2025&27.10.2025  
 13 Report Issued Date : 04.11.2025  
 14 Report Number : ULR-TC1618025000003123F

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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
Chimneys attached to Bag Filter (De dusting Units)											
2 X 100 TPD Sponge Iron Kiln 1 & 2											
10	Cooler-1 Discharge & Blending Chute	24.10.2025	6084	---	24	30	4.77	30	1.20	22.60	50
11	Cooler-2 Discharge	25.10.2025	6106	---	27	32	4.72	30	1.20	22.55	50
12	Intermediate Bin & Blending	25.10.2025	6107	---	25	33	4.46	30	1.20	20.01	50
13	Product House	25.10.2025	6108	---	29	34	4.51	30	1.20	24.81	50

Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	19444	19002	-
11	Cooler-2 Discharge	19205	18697	-
12	Intermediate Bin & Blending	18159	17587	-
13	Product House	18373	17726	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\*

*Pavitra GR*  
Analysed By  
Pavitra GR  
Chemist

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



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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.4500003634 DATED:01.07.2025                               |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                                   |
| 4  | Particulars of sample collected | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ <b>32308</b> |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026       |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Sampling Location               | : | <b>Pellet Plant-2 ESP</b>  |
| 10 | Month of Sampling               | : | <b>OCTOBER -2025</b>   |
| 11 | Date of Sample Received         | : | 03.10.2025&16.10.2025  |
| 12 | Date of Sample Analysis         | : | 04.10.2025&17.10.2025  |
| 13 | Date Sample Analysis Completion | : | 04.10.2025&17.10.2025  |
| 14 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 15 | Report Number                   | : | <b>ULR-TC1618025000002815F</b>   |

### Stack Details

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

### Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				03.10.2025	16.10.2025	
	Date of Monitoring			5480	5939	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	76	74	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.15	5.56	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	336784	304325	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	287267	260629	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	21.90	27.23	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	175	169	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm <sup>3</sup>	41	39	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.021	0.018	1%

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

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

**Analysed By**  
 Pavitra GR  
 Chemist

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

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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.4500003634 DATED:01.07.2025                               |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                                   |
| 4  | Particulars of sample collected | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ <b>32308</b> |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026       |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Sampling Location               | : | <b>SID Axis 3&amp;4</b>  |
| 10 | Month of Sampling               | : | <b>SEPTEMBER-2025</b>  |
| 11 | Date of Sample Received         | : | 06.10.2025&17.10.2025  |
| 12 | Date of Sample Analysis         | : | 07.10.2025&18.10.2025  |
| 13 | Date Sample Analysis Completion | : | 07.10.2025&18.10.2025  |
| 14 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 15 | Report Number                   | : | <b>ULR-TC1618025000002848F</b>   |

### 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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				06.10.2025	17.10.2025	
	Date of Monitoring			5524	5953	
	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	126	124	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.76	5.77	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	171784	146798	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	128233	110032	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	31.34	29.10	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	339	361	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm <sup>3</sup>	36	31	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.126	0.096	1%

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

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

*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)  
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 e-mail : gems\_hpt@yahoo.com  
 Website : www.gemsllp.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.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ 32308  |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Sampling Location               | : | <b>SID Axis 5&amp;6</b>  |
| 10 | Month of Sampling               | : | <b>SEPTEMBER-2025</b>  |
| 11 | Date of Sample Received         | : | 07.10.2025&20.10.2025  |
| 12 | Date of Sample Analysis         | : | 08.10.2025&21.10.2025  |
| 13 | Date Sample Analysis Completion | : | 08.10.2025&21.10.2025  |
| 14 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 15 | Report Number                   | : | <b>ULR-TC1618025000002858F</b>                                   |

### 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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				07.10.2025	20.10.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	132	128	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.14	5.80	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	156200	147678	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	114902	109356	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	34.16	32.42	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	635	616	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	41	44	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.136	0.125	1%

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

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

*Pavitra GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



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 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.4500003634 DATED:01.07.2025
3	Sample collected by	:	GLOBAL Environment & Mining Services
4	Particulars of sample collected	:	Vayubodhak/ <b>VBSS2</b> Sl. No: Stack Monitoring Kit/ <b>32308</b>
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	:	<b>1X70 MW-CFBC Boiler ESP</b>
10	Month of Sampling	:	<b>OCTOBER-2025</b>
11	Date of Sample Received	:	08.10.2025&22.10.2025
12	Date of Sample Analysis	:	09.10.2025&23.10.2025
13	Date Sample Analysis Completion	:	09.10.2025&23.10.2025
14	Report Issued Date	:	<b>04.11.2025</b>
15	Report Number	:	<b>ULR-TC1618025000002930F</b>

### 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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				08.10.2025	22.10.2025	
	Date of Monitoring			5641	6059	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	116	114	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.71	5.51	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	145228	140135	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	111225	107694	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	26.41	26.07	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	24	19	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	135	127	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.041	0.039	1%

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

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

*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

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 Website : www.gemslp.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.4500003634 DATED:01.07.2025
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	: <b>2X70 MW CFBC Boiler ESP</b>
10	Month of Sampling	: <b>OCTOBER-2025</b>
11	Date of Sample Received	: 11.10.2025&25.10.2025
12	Date of Sample Analysis	: 13.10.2025&27.10.2025
13	Date Sample Analysis Completion	: 13.10.2025&27.10.2025
14	Report Issued Date	: <b>04.11.2025</b>
15	Report Number	: <b>ULR-TC1618025000002988F</b>

### 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 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				11.10.2025	25.10.2025	
	Date of Monitoring					
	Sample Code			5742	6152	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	121	118	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.33	6.17	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	1144793	1117373	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	865061	849251	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	35.27	32.20	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	42	39	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	267	244	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.22	0.027	NS

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

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

*Pavitra GR*  
**Analysed By**  
 Pavitra GR  
 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-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.4500003634 DATED:01.07.2025
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	:	OCTOBER-2025
11	Date of Sample Received	:	13.10.2025&28.10.2025
12	Date of Sample Analysis	:	14.10.2025&29.10.2025
13	Date Sample Analysis Completion	:	14.10.2025&29.10.2025
14	Report Issued Date	:	04.11.2025
15	Report Number	:	ULR-TC1618025000003004F

### 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 <sup>ST</sup> Fort Night	2 <sup>ND</sup> Fort Night	
				13.10.2025	28.10.2025	
	Date of Monitoring			5778	6213	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	74	72	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.38	5.31	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	87632	86535	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	75129	74150	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	19.87	18.05	50

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

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

*GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

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 Website : www.gemslp.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.4500003634 DATED:01.07.2025
3	Sample collected by	:	GLOBAL Environment & Mining Services
4	Particulars of sample collected	:	Vayubodhak/ <b>VBSS2</b> Sl. No: Stack Monitoring Kit/ <b>32308</b>
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	:	<b>Barmill</b>
10	Month of Sampling	:	<b>OCTOBER-2025</b>
11	Date of Sample Received	:	14.10.2025&30.10.2025
12	Date of Sample Analysis	:	15.10.2025&31.10.2025
13	Date Sample Analysis Completion	:	15.10.2025&31.10.2025
14	Report Issued Date	:	<b>04.11.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003016F</b>

### 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 <sup>ST</sup> Fort Night	2 <sup>ND</sup> Fort Night	
				14.10.2025	30.10.2025	
	Date of Monitoring					
	Sample Code			5850	6248	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	119	115	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.18	5.69	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	157186	144903	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	119399	110911	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	18.17	16.26	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	309	286	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	14	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.496	0.439	NS

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

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

*Signature*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



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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.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : Vayubodhak/ VBSS2<br>Sl. No: Stack Monitoring Kit/ 32308         |
| 5  | Instrument Details              | : Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : Chemical   |
| 7  | Group                           | : Atmospheric Pollution  |
| 8  | Sample Type                     | : Stack Monitoring   |
| 9  | Sampling Location               | : <b>Blast Furnace -Stove Waste Gas</b>                            |
| 10 | Month of Sampling               | : <b>OCTOBER-2025</b>  |
| 11 | Date of Sample Received         | : 15.10.2025&27.10.2025  |
| 12 | Date of Sample Analysis         | : 16.10.2025&28.10.2025  |
| 13 | Date Sample Analysis Completion | : 16.10.2025&28.10.2025  |
| 14 | Report Issued Date              | : <b>04.11.2025</b>  |
| 15 | Report Number                   | : <b>ULR-TC1618025000003028F</b>                                   |

### 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	
				15.10.2025	27.10.2025	
	Date of Monitoring Sample Code			5874	6175	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	136	139	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.83	5.78	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	94933	94079	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	68996	67841	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	14.36	12.70	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	71	69	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	14	12	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.496	0.442	<1%

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

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

*Signature*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

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TC-16180

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

### Analysis Report of Stack Emission

- |    |                                 |   |  |
|----|---------------------------------|---|--|
| 1  | Name of the Industry            | : | BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  |
| 2  | Customer Reference              | : | WORKORDER NO.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ VBSS2<br>Sl. No: Stack Monitoring Kit/ 32308         |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | SEPTEMBER-2025(1 <sup>st</sup> Fort Night)                       |
| 10 | Date of Sample Received         | : | 14.10.2025   |
| 11 | Date of Sample Analysis         | : | 15.10.2025   |
| 12 | Date Sample Analysis Completion | : | 15.10.2025   |
| 13 | Report Issued Date              | : | 04.11.2025   |
| 14 | Report Number                   | : | ULR-TC1618025000003017F  |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Beneficiation Plant-2</b>											
1	Iron Ore Cone Crusher	-	-	---	-	-	-	30	1.20	-	50
2	Iron Ore Screening	14.10.2025	5851	---	29	35	4.74	30	0.90	15.72	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	10846	10476	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

**Note:**

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

## Analysis Report of Stack Emission

- |    |                                 |   |  |
|----|---------------------------------|---|--|
| 1  | Name of the Industry            | : | BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  |
| 2  | Customer Reference              | : | WORKORDER NO.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ 32308  |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | <b>SEPTEMBER-2025(1<sup>st</sup> Fort Night)</b>                 |
| 10 | Date of Sample Received         | : | 03.10.2025   |
| 11 | Date of Sample Analysis         | : | 04.10.2025   |
| 12 | Date Sample Analysis Completion | : | 04.10.2025   |
| 13 | Report Issued Date              | : | <b>03.10.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000002816F</b>                                   |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Pellet Plant-II</b>											
3	AGB main bag Filter	03.10.2025	5481	---	27	32	4.67	6.5	0.5	18.64	50
4	Lime & Bentonite Powder bin top bag filter	03.10.2025	548	---	29	33	4.50	6.5	0.5	20.22	50
5	AGB De dusting Bag Filter	-	-	---	-	-	-	6	0.6	-	50
6	Powder Coal main bag filter	-	-	---	-	-	-	6	0.6	-	50
7	RP-6 Conveyor bag Filter	-	-	---	-	-	-	6	0.3	-	50
8	Pellet discharge bin bag filter	03.10.2025	5483	---	30	39	4.88	20	0.5	27.76	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
3	AGB main bag Filter	3302	3220	-
4	Lime & Bentonite Powder bin top bag filter	3181	3086	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3451	3282	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*BeR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

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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.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ VBSS2<br>Sl. No: Stack Monitoring Kit/ 32308         |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | <b>SEPTEMBER-2025(1<sup>st</sup> Fort Night)</b>                 |
| 10 | Date of Sample Received         | : | 06.10.2025,07.10.2025,08.10.2025&09.10.2025                      |
| 11 | Date of Sample Analysis         | : | 07.10.2025,08.10.2025,09.10.2025&10.10.2025                      |
| 12 | Date Sample Analysis Completion | : | 07.10.2025,08.10.2025,09.10.2025&10.10.2025                      |
| 13 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000002882F</b>                                   |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>2 X 500 TPD Sponge Iron Kiln 1 &amp; 2</b>											
9	Cooler Discharge -1	06.10.2025	5539	---	28	35	4.79	30	1.20	28.12	50
10	Cooler Discharge -2	06.10.2025	5540	---	29	36	4.95	30	1.20	25.88	50
11	Coal stock house	07.10.2025	5569	---	28	33	4.87	30	1.20	14.34	50
12	PSB 1 System-1	07.10.2025	5570	---	29	35	4.67	30	1.20	28.11	50
13	PSB 1 System-2	07.10.2025	5571	---	29	36	4.76	30	1.20	29.46	50
14	PSB 2 System-1 MCC	08.10.2025	5642	---	29	35	4.48	30	1.20	32.23	50
15	PSB 1 System-2 Road	08.10.2025	5643	---	30	36	4.91	30	1.20	30.60	50
16	Junction House Old & New	08.10.2025	5644	---	29	37	4.97	30	1.20	32.99	50
17	Storage Bunker	09.10.2025	5688	---	28	33	4.80	30	1.20	21.72	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 <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
9	Cooler Discharge -1	19515	18826	-
10	Cooler Discharge -2	20153	19369	-
11	Coal stock house	19821	19280	-
12	PSB 1 System-1	19012	18336	-
13	PSB 1 System-2	19387	18628	-
14	PSB 2 System-1 MCC	18237	17629	-
15	PSB 1 System-2 Road	20003	19210	-
16	Junction House Old & New	20258	19377	-
17	Storage Bunker	19545	19016	-
18	Dispatch	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*Pavitra GR*  
**Analysed By**  
Pavitra GR  
Chemist

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



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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.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ VBSS2<br>Sl. No: Stack Monitoring Kit/ 32308         |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | <b>SEPTEMBER-2025 (1st Fort Night)</b>                           |
| 10 | Date of Sample Received         | : | 09.10.2025&10.10.2025  |
| 11 | Date of Sample Analysis         | : | 10.10.2025&11.10.2025  |
| 12 | Date Sample Analysis Completion | : | 10.10.2025&11.10.2025  |
| 13 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000002967F</b>                                   |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>2X500 TPD Sponge Iron Kiln 3&amp;4</b>											
19	DE 3, Axis 3 CD	09.10.2025	5690	---	30	38	5.17	30	1.20	27.55	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	09.10.2025	5691	---	30	37	4.93	30	1.20	27.73	50
21	DE 8 & 12 I-Bin, (Stand By)	10.10.2025	5706	---	28	35	4.86	30	1.90	34.00	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	10.10.2025	5707	---	29	36	4.78	30	1.90	34.41	50
23	Coal Dryer	10.10.2025	5708	---	30	38	4.68	30	1.20	36.60	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
19	DE 3, Axis 3 CD	21053	20069	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	20081	19238	-
21	DE 8 & 12 I-Bin, (Stand By)	49596	47891	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	48779	46807	-
23	Coal Dryer	19071	18173	-

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

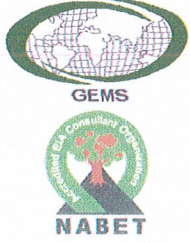
**\*\*End of the Report\*\***

*BGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

*KR*  
**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.4500003634 DATED:01.07.2025                               |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                                   |
| 4  | Particulars of sample collected | : | Vayubodhak/ <b>VBSS2</b><br>Sl. No: Stack Monitoring Kit/ <b>32308</b> |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026       |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | <b>SEPTEMBER-2025(2<sup>nd</sup>Fort Night)</b>                        |
| 10 | Date of Sample Received         | : | 29.10.2025   |
| 11 | Date of Sample Analysis         | : | 30.10.2025   |
| 12 | Date Sample Analysis Completion | : | 30.10.2025   |
| 13 | Report Issued Date              | : | <b>04.11.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000003159F</b>   |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Beneficiation Plant-2</b>											
1	Iron Ore Cone Crusher	<b>Shut down</b>	-	---	-	-	-	-	-	-	50
2	Iron Ore Screening	29.10.2025	6237	---	23	32	4.63	30	0.90	13.93	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	10615	10330	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*BGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

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 Website : www.gemslp.in



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.4500003634 DATED:01.07.2025                         |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services                             |
| 4  | Particulars of sample collected | : | Vayubodhak/ VBSS2<br>Sl. No: Stack Monitoring Kit/ 32308         |
| 5  | Instrument Details              | : | Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical   |
| 7  | Group                           | : | Atmospheric Pollution  |
| 8  | Sample Type                     | : | Stack Monitoring   |
| 9  | Month of Sampling               | : | SEPTEMBER-2025(2 <sup>nd</sup> Fort Night)                       |
| 10 | Date of Sample Received         | : | 16.10.2025   |
| 11 | Date of Sample Analysis         | : | 17.10.2025   |
| 12 | Date Sample Analysis Completion | : | 17.10.2025   |
| 13 | Report Issued Date              | : | 04.11.2025   |
| 14 | Report Number                   | : | ULR-TC1618025000003067F  |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>Pellet Plant</b>											
3	AGB main bag Filter	16.10.2025	5946	---	29	33	4.76	6.5	0.50	20.83	50
4	Lime & Bentonite Powder bin top bag filter	16.10.2025	5947	---	30	35	4.46	6.5	0.50	18.28	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	16.10.2025	5948	---	31	37	4.79	2.0	0.50	29.94	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /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	3385	3234	-

Parameter	Protocol
Particulate Matter (mg/Nm <sup>3</sup> )	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\*\***

*BGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)  
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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.4500003634 DATED:01.07.2025  |
| 3  | Sample collected by             | : | GLOBAL Environment & Mining Services  |
| 4  | Particulars of sample collected | : | Vayubodhak/ VBSS2   |
| 5  | Instrument Details              | : | Sl. No: Stack Monitoring Kit/ 32308<br>Calibration Date: 25.04.2025<br>Calibration Due Date: 24.04.2026 |
| 6  | Discipline                      | : | Chemical  |
| 7  | Group                           | : | Atmospheric Pollution   |
| 8  | Sample Type                     | : | Stack Monitoring  |
| 9  | Month of Sampling               | : | <b>SEPTEMBER-2025(2<sup>nd</sup>Fort Night)</b>   |
| 10 | Date of Sample Received         | : | 18.10.2025,20.10.2025& 22.10.2025   |
| 11 | Date of Sample Analysis         | : | 20.10.2025,21.10.2025& 23.10.2025   |
| 12 | Date Sample Analysis Completion | : | 20.10.2025,21.10.2025& 23.10.2025   |
| 13 | Report Issued Date              | : | <b>04.11.2025</b>   |
| 14 | Report Number                   | : | <b>ULR-TC1618025000003087F</b>  |

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>2 X 500 TPD Sponge Iron Kiln 1 &amp; 2</b>											
9	Cooler Discharge -1	18.10.2025	5986	Coal	29	35	4.70	30	1.2	26.32	50
10	Cooler Discharge -2	-	-	Coal	-	-	-	30	1.2	-	50
11	Coal stock house	18.10.2025	5987	Coal	30	33	4.63	30	1.2	13.12	50
12	PSB 1 System-1	20.10.2025	6023	Coal	27	32	4.59	30	1.2	29.07	50
13	PSB 1 System-2	20.10.2025	6024	Coal	28	34	4.89	30	1.2	29.76	50
14	PSB 2 System-1 MCC	20.10.2025	6025	Coal	29	33	4.62	30	1.2	31.41	50
15	PSB 1 System-2 Road	22.10.2025	6053	Coal	27	33	4.78	30	1.2	30.14	50
16	Junction House Old & New	22.10.2025	6054	Coal	28	34	4.84	30	1.2	33.07	50
17	Storage Bunker	22.10.2025	6055	Coal	27	33	4.92	30	1.2	23.21	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 <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /hr	KSPCB Std
9	Cooler Discharge -1	19144	18427	-
10	Cooler Discharge -2	-	-	-
11	Coal stock house	18860	18265	-
12	PSB 1 System-1	18700	18194	-
13	PSB 1 System-2	19907	19194	-
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 <sup>3</sup> )	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\*\***

*Pavitra GR*  
 Analysed By  
 Pavitra GR  
 Chemist

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

**Note:**

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TC-16180

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

## Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : **SEPTEMBER-2025(2<sup>nd</sup> Fort Night)**
- 10 Date of Sample Received : 23.10.2025&24.10.2025
- 11 Date of Sample Analysis : 24.10.2025&25.10.2025
- 12 Date Sample Analysis Completion : 24.10.2025&25.10.2025
- 13 Report Issued Date : **04.11.2025**
- 14 Report Number : **ULR-TC1618025000003127F**

### 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 <sup>3</sup>	KSPCB Std mg/Nm <sup>3</sup>
<b>Chimneys attached to Bag Filter (De dusting Units)</b>											
<b>2X500 TPD Sponge Iron Kiln 3&amp;4</b>											
19	DE 3, Axis 3 CD	23.10.2025	6099	---	27	32	4.93	30	1.20	29.52	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	23.10.2025	6097	---	26	34	4.72	30	1.20	31.94	50
21	DE 8 & 12 I-Bin, (Stand By)	23.10.2025	6098	---	25	35	4.73	30	1.90	33.57	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	24.10.2025	6118	---	26	31	4.83	30	1.90	28.94	50
23	Coal Dryer	24.10.2025	6119	---	25	38	4.58	30	1.20	34.28	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m <sup>3</sup> /hr	Gas flow rate at NTP Nm <sup>3</sup> /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 <sup>3</sup> )	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\*\***

*GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

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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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Report Issue Date : 04.11.2025  
 Method Adopted : IS 9989-1981 Reaffirmed 2014  
 Report No : ULR-TC1618025000002806F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		Standard
			Day Time		
			Min	Max	
1	Main Gate	01.10.2025	50.2	56.9	75
2	BF Blower House Entrance	01.10.2025	62.4	70.8	75
3	Transit House	03.10.2025	58.0	64.9	75
4	BF-7th Gate	03.10.2025	45.2	54.8	75
5	Gunda Road	04.10.2025	53.1	60.2	75
6	Gunda Railway Station	04.10.2025	40.2	54.6	75
7	Bagging Shed	06.10.2025	54.1	62.8	75
8	Railway Siding	06.10.2025	51.3	55.8	75
9	SMS-Vibro Feeders	07.10.2025	64.9	72.6	75
10	Bricks Plant	07.10.2025	49.6	54.2	75
11	Kempuhalla (Wagon Tippler)	08.10.2025	51.9	56.8	75
12	Danapura Bridge	08.10.2025	52.8	59.8	75
13	2nd Gate	09.10.2025	54.1	59.0	75
14	MBM-Scale pit	09.10.2025	66.3	70.1	75
15	Dispatch (Truck Parking Area)	09.10.2025	68.5	71.4	75

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

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

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

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



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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.4500003634 DATED:01.07.2025  
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 : **OCTOBER-2025**  
Report Issue Date : **04.11.2025**  
Method Adopted : IS 9989-1981 Reaffirmed 2014  
Report No : **ULR-TC1618025000003062F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	16.10.2025	51.0	56.8	75
2	BF Blower house entrance	16.10.2025	66.8	71.3	75
3	Transit House	17.10.2025	50.9	57.6	75
4	BF-7th gate	17.10.2025	43.5	51.4	75
5	Gunda Road	18.10.2025	51.6	59.2	75
6	Gunda Railway Station	18.10.2025	48.2	53.3	75
7	Bagging Shed	20.10.2025	52.1	56.2	75
8	Railway Siding	20.10.2025	47.2	58.4	75
9	SMS-Vibro feeders	22.10.2025	68.8	71.6	75
10	Bricks Plant	22.10.2025	48.3	54.8	75
11	Kempuhalla (Wagon Tippler)	23.10.2025	49.6	54.1	75
12	Danapura Bridge	23.10.2025	53.5	59.6	75
13	2nd Gate	24.10.2025	49.6	55.8	75
14	MBM Scale pit	24.10.2025	69.2	70.4	75
15	Dispatch (Truck Parking Area)	24.10.2025	64.8	70.2	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

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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.4500003634 DATED:01.07.2025  
 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 : OCTOBER-2025  
 Report Issue Date : 04.11.2025  
 Method Adopted : IS 9989-1981 Reaffirmed 2014  
 Report No : ULR-TC1618025000002805F

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	01.10.2025	49.3	54.1	50.74	55	38.2	43.1	40.56	45
2	Mariyammana Halli	04.10.2025	46.6	53.8	50.14		37.4	41.8	39.72	
3	Hanumana Halli	03.10.2025	47.8	55.0	51.02		39.2	42.6	40.48	
4	Galemmanagudi	06.10.2025	47.6	57.8	52.48		39.8	43.8	41.76	
5	G.Nagalapura Village	07.10.2025	48.7	56.4	51.02		38.4	42.4	40.34	
6	Gunda Tanda Village	08.10.2025	48.2	53.4	50.74		39.2	43.1	41.02	

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

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

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

*K. Ramakrishna Reddy*  
 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

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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.4500003634 DATED:01.07.2025
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	:	5875
10	Date of Sampling	:	15.10.2025
11	Sample Received	:	15.10.2025
12	Date of Analysis	:	16.10.2025
13	Date of Analysis Completion	:	22.10.2025
14	Report Issue Date	:	04.11.2025
15	Report Number	:	ULR-TC1618025000003029F

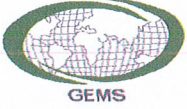
### Results

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	-	7.27	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1600	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	960	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.4	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO4 E: 2023	mg/L	14.40	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	110.78	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	149.09	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	44.53	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	556.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	277.29	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	0.56	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	24.34	45 max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	489.3	200 max	600 max
17.	Acidity as CaCO <sub>3</sub>	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	0.30 max	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.**

<b>INFERENCE</b>	<b>As per Standards IS: 10500:2012</b> <b>Report Status: - Measured Values for the above parameters are within the limits.</b>
------------------	---

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

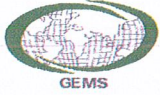
*GR*  
**Analysed By**  
Pavitra GR  
Chemist

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



**Note:**

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



NABET

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

3<sup>rd</sup> Main Road, Basaveswara Badavane,**HOSAPETE – 583201**, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

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.4500003634 DATED:01.07.2025
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	: 5875
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15.	Report Number	: GEMS/BMMIL/GW/2025-26/3029

**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	<b>Absent</b>	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	<b>Absent</b>	Shall not be detectable in any 100ml sample	-

**Note: Ab: Absent, NR: No Relaxation**

*Beir*  
**Analysed By**  
 Pavitra GR  
 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



# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3<sup>rd</sup> Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

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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.4500003634 DATED:01.07.2025
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	: 5877
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: ULR-TC1618025000003031F

## Results

Sl. No.	Parameters	Protocol	Unit	Hanumanahalli Village (GW2)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.90	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1600	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1048	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 <sub>4</sub>	APHA 24th Edition 4500 SO4 E: 2023	mg/L	145.25	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	90.46	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	82.16	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	186.01	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	19.19	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	544.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	151.40	250max	1000 max

### Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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TC-16180

## ANNEXURE-47

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.81	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	18.34	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	539.2	200max	600max
17.	Acidity as CaCO <sub>3</sub>	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\*\***

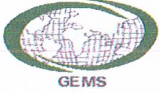
*GR*  
**Analysed By**  
Pavitra GR  
Chemist

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



### Note:

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Website : www.gemslp.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.4500003634 DATED:01.07.2025
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	: 5877
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/3031

### 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  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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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.4500003634 DATED:01.07.2025
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	:	<b>5878</b>
10	Date of Sampling	:	15.10.2025
11	Sample Received	:	15.10.2025
12	Date of Analysis	:	16.10.2025
13	Date of Analysis Completion	:	22.10.2025
14	Report Issue Date	:	<b>04.11.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003032F</b>

**Results**

Sl. No.	Parameters	Protocol	Unit	Galemman agudi 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	-	7.71	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2430	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1458	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 <sub>4</sub>	APHA 24th Edition 4500 S04 E: 2023	mg/L	136.88	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	230.24	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	108.17	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	178.75	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	18.25	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	522.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	394.27	250max	1000 max

**Note:**

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Website : www.gemslip.in



TC-16180

## ANNEXURE-48

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.35	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	24.82	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	504.0	200max	600max
17.	Acidity as CaCO <sub>3</sub>	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: GW3: Galemmanagudi Village. NR-No relaxation.

<b>INFERENCE</b>	<b>As per Standards IS: 10500:2012</b> <b>Report Status: - Measured Values for the above parameters are within the limits.</b>
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\*\*End of the Report\*\*

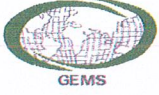
*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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



**Note:**

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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.4500003634 DATED:01.07.2025
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	: <b>5878</b>
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: <b>04.11.2025</b>
15	Report Number	: <b>GEMS/BMMIL/GW/2025-26/3032</b>

### 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	<b>Absent</b>	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	<b>Absent</b>	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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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.4500003634 DATED:01.07.2025
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	: 5876
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: ULR-TC1618025000003030F

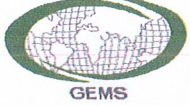
### Results

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	-	7.60	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2280	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1368	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 <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E: 2023	mg/L	240.31	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	150.27	-	-
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	164.32	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	27.99	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	526.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	432.83	250max	1000 max

#### Note:

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**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

3<sup>rd</sup> 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-49**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.37</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>22.16</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>476.7</b>	200max	600max
17.	Acidity as CaCO <sub>3</sub>	APHA 24th Edition 2310 B : 2023	mg/L	<b>Nil</b>	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	<b>0.10</b>	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<b>&lt;0.01</b>	0.05 max	NR

**Note: GW4: Mariyammanahalli Village. NR-No relaxation**

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

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

*GR*  
**Analysed By**  
Pavitra GR  
Chemist

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

**Note:**

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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e-mail : gems\_hpt@yahoo.com

Website : www.gemslp.in

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

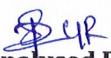
### Analysis Report of Water Quality Data

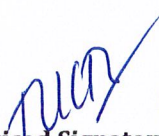
1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 5876
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/3030

### 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	-

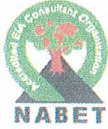
Note: Ab: Absent, NR: No Relaxation

  
Analysed By  
Pavitra GR  
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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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.4500003634 DATED:01.07.2025
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	: 5879
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: ULR-TC1618025000003033F

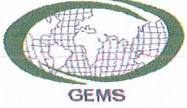
## Results

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	-	7.28	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1280	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	768	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.4	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO4 E: 2023	mg/L	150.38	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	28.82	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	11.06	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	165.93	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	4.17	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	432.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	172.55	250max	1000 max

### Note:

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TC-16180

## ANNEXURE-50

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.38</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>16.84</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>340.2</b>	200max	600max
17.	Acidity as CaCO <sub>3</sub>	APHA 24th Edition 2310 B : 2023	mg/L	<b>Nil</b>	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	<b>0.12</b>	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<b>&lt;0.01</b>	0.05 max	NR

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

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

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

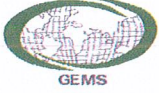
*PGR*  
**Analysed By**  
 Pavitra GR  
 Chemist

*KRR*  
**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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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.4500003634 DATED:01.07.2025
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	: <b>5879</b>
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: <b>04.11.2025</b>
15.	Report Number	: <b>GEMS/BMMIL/GW/2025-26/3033</b>

**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	<b>Absent</b>	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	<b>Absent</b>	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

  
Analysed By  
Pavitra GR  
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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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.4500003634 DATED:01.07.2025 - 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                     | : 5880  |
| 10 | Date of Sampling                | : 15.10.2025  |
| 11 | Sample Received                 | : 15.10.2025  |
| 12 | Date of Analysis                | : 16.10.2025  |
| 13 | Date of Analysis Completion     | : 22.10.2025  |
| 14 | Report Issue Date               | : 04.11.2025  |
| 15 | Report Number                   | : ULR-TC1618025000003034F   |

### 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	-	7.35	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1240	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	744	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 <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E: 2023	mg/L	40.01	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	31.09	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	8.30	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	112.22	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	53.81	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	502.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	204.36	250max	1000 max

#### Note:

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Ph : 08394 355369

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Website : www.gemslp.in



TC-16180

**ANNEXURE-51**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.28</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>18.76</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>426.3</b>	200max	600max
17.	Acidity as CaCO <sub>3</sub>	APHA 24th Edition 2310 B : 2023	mg/L	<b>Nil</b>	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	<b>0.10</b>	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<b>&lt;0.01</b>	0.05 max	NR

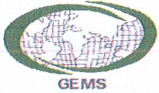
**Note: GW6: G Nagalapura Village. NR-No relaxation.****INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.****\*\*End of the Report\*\***

*GR*  
**Analysed By**  
 Pavitra GR  
 Chemist

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

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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ANNEXURE-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.4500003634 DATED:01.07.2025
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	: <b>5880</b>
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: <b>04.11.2025</b>
15	Report Number	: <b>GEMS/BMMIL/GW/2025-26/2427</b>

### 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	<b>Absent</b>	Shall not be detectable in any 100ml sample	-
29	<i>Escherichia coli</i> count	IS : 15185:2016	1 CFU/100 ml	<b>Absent</b>	Shall not be detectable in any 100ml sample	-

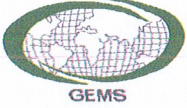
Note: Ab: Absent, NR: No Relaxation

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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TC-16180

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.4500003634 DATED:01.07.2025
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	:	5881
10	Date of Sampling	:	15.10.2025
11	Sample Received	:	15.10.2025
12	Date of Analysis	:	16.10.2025
13	Date of Analysis Completion	:	22.10.2025
14	Report Issue Date	:	04.11.2025
15	Report Number	:	ULR-TC1618025000003035F

### 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	-	7.54	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	280	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	168	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 <sub>4</sub>	APHA 24th Edition 4500 S04 E: 2023	mg/L	32.35	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	32.95	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	7.08	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	22.44	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	1.43	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	62.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	19.28	250max	1000 max

#### Note:

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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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TC-16180


## ANNEXURE-52

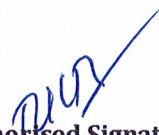
14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>BDL</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>BDL</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>84.0</b>	200max	600max
17.	Acidity as CaCO <sub>3</sub>	APHA 24th Edition 2310 B : 2023	mg/L	<b>0.0</b>	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	<b>BDL</b>	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<b>&lt;0.01</b>	0.05 max	NR

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

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

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

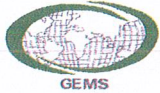
  
**Analysed By**  
Pavitra GR  
Chemist

  
**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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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.4500003634 DATED:01.07.2025
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	: 5881
10	Date of Sampling	: 15.10.2025
11	Sample Received	: 15.10.2025
12	Date of Analysis	: 16.10.2025
13	Date of Analysis Completion	: 22.10.2025
14	Report Issue Date	: 04.11.2025
15	Report Number	: GEMS/BMMIL/RO/2025-26/3035

#### 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	<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  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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TC-16180

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.4500003634 DATED:01.07.2025
- 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 : 15.10.2025
- 10 Sample Received : 15.10.2025
- 11 Date of Analysis : 16.10.2025
- 12 Date of Analysis Completion : 22.10.2025
- 13 Report Issue Date : 04.11.2025
- 14 Report Number : ULR-TC1618025000003036F

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std	
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD		
<b>Sample code</b>				-	5882	5883	5884	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.66	7.70	7.35	6.5 to 8.5	
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	6.0	8.0	12.0	<20	
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	4.0	8.0	<10	
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	16.32	22.44	38.76	<50	
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.0	2.0	4.0	10	

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

STP 45 KLD - Near Fortivia

STP-1 90 KLD -Near ISP Area

STP-2 90 KLD -Near Gunda Guest House

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

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



Note:

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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.4500003634 DATED:01.07.2025
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	:	<b>Sewage Treatment Plant (Outlet)</b>
9	Date of Sampling	:	15.10.2025
10	Sample Received	:	15.10.2025
11	Date of Analysis	:	16.10.2025
12	Date of Analysis Completion	:	22.10.2025
13	Report Issue Date	:	04.11.2025
14	Report Number	:	GEMS/BMMIL/STP/2025-26/3036

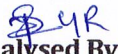
Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
<b>Sample code</b>			-	5882	5883	5884	
6.	Color	APHA 24th Edition -2120 C:2023	Hazen	5	5	10	-
7.	Odour	IS: 3025 (PART 5)- 1983, RA-2012, True Odour	-	Agree able	Agree able	Agree able	-
8.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D: 2023	mg/L	BDL	BDL	BDL	-
9.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	BDL	-
10.	Chromium (as Cr <sup>6+</sup> )	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	0.42	1.12	2.66	5
12.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.40	2.52	3.92	10
13.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/100ml	14	21	26	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**  
Pavitra GR  
Chemist

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



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Website : www.gemslip.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.4500003634 DATED:01.07.2025
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	:	<b>Waste Water</b>
9	Date of Sampling	:	15.10.2025
10	Sample Received	:	15.10.2025
11	Date of Analysis	:	16.10.2025
12	Date of Analysis Completion	:	22.10.2025
13	Report Issue Date	:	<b>04.11.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003039F</b>

### 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				5885	5886	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.94	6.86	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	16.0	18.0	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	106.08	99.96	250
4.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	6.0	2.0	10

Note: BDL-Below detectable Limit.

INFERENCE: The Measured values are within the Limit.

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

Analysed By  
Pavitra GR  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

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TC-16180

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.4500003634 DATED:01.07.2025
- 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 : 15.10.2025
- 10 Sample Received : 15.10.2025
- 11 Date of Analysis : 16.10.2025
- 12 Date of Analysis Completion : 22.10.2025
- 13 Report Issue Date : **04.11.2025**
14. Report Number : **ULR-TC1618025000003041F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
<b>Sample code</b>				<b>5887</b>	<b>5888</b>	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.07	6.86	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	2.0	3.0
3.	Fluorides as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.35	0.20	1.3

**INFERENCE:** The measured values are within the Limit

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

  
**Analysed By**  
Pavitra GR  
Chemist

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



**Note:**

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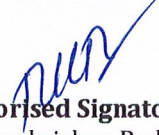
ANNEXURE-55  
GEMS-LD/TF/23/01

### Analysis Report of Water Quality Data

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- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : 15.10.2025
- 10 Sample Received : 15.10.2025
- 11 Date of Analysis : 16.10.2025
- 12 Date of Analysis Completion : 22.10.2025
- 13 Report Issue Date : **04.11.2025**
14. Report Number : **GEMS/SW/2025-26/3041**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
<b>Sample code</b>				<b>5887</b>	<b>5888</b>	
4	Arsenic as As	APHA 24th Edition 3114-B:2023	mg/L	<0.01	<0.01	0.2
5	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.6	5.4	>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 <sub>6</sub> H <sub>5</sub> OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr <sup>6+</sup> )	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	<b>Total Coliform Organisms</b>					
	Total Coli forms	IS : 1622:1981	MPN/100 ml	80	90	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/100 ml	Absent	Absent	-

  
**Analysed By**  
Pavitra GR  
Chemist

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



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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GEMS



NABET

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TC-16180

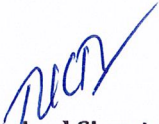
ANNEXURE-56  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500003634 DATED:01.07.2025
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	:	<b>Surface Water</b>
9	Date of Sampling	:	15.10.2025
10	Sample Received	:	15.10.2025
11	Date of Analysis	:	16.10.2025
12	Date of Analysis Completion	:	22.10.2025
13	Report Issue Date	:	<b>04.11.2025</b>
14.	Report Number	:	<b>ULR-TC1618025000003043F</b>

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
<b>Sample code</b>				<b>5889</b>	<b>5890</b>	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.86	7.94	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	2.0	3.0
3.	Fluorides as F	APHA 24th Editin 4500 F D : 2023	mg/L	0.29	0.24	1.5

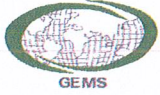
**INFERENCE:** The measured values are within the Limit**\*\*End of the Report\*\***

  
**Analysed By**  
 Pavitra GR  
 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.
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## GLOBAL ENVIRONMENT & MINING SERVICES LLP

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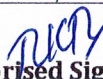
ANNEXURE-56  
GEMS-LD/TF/23/01

### Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 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 : 15.10.2025
- 10 Sample Received : 15.10.2025
- 11 Date of Analysis : 16.10.2025
- 12 Date of Analysis Completion : 22.10.2025
- 13 Report Issue Date : **04.11.2025**
14. Report Number : **GEMS/SW/2025-26/3043**

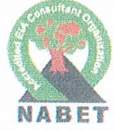
Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
<b>Sample code</b>				<b>5889</b>	<b>5890</b>	
4	Arsenic as As	APHA 24th Edition 3114- B : 2023	mg/L	<0.01	<0.01	0.2
5	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.4	5.2	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	20	20	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr <sup>6+</sup> )	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	<b>Total Coliform Organisms</b>					
	Total Coli forms	IS : 1622:1981	MPN/100 ml	30	23	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/100 ml	Absent	Absent	-

  
**Analysed By**  
Pavitra GR  
Chemist

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



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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.4500003634 DATED:01.07.2025
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	:	<b>Surface Water</b>
9	Date of Sampling	:	15.10.2025
10	Sample Received	:	15.10.2025
11	Date of Analysis	:	16.10.2025
12	Date of Analysis Completion	:	22.10.2025
13	Report Issue Date	:	<b>04.11.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003045F</b>

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
				Sample Code	
				5891	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.21	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	0.16	1.5
4.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	224	-
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	20	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.

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

*PGR*  
Analysed By  
Pavitra GR  
Chemist

*KRR*  
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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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.4500003634 DATED:01.07.2025
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	: <b>Surface Water</b>
9	Date of Sampling	: 15.10.2025
10	Sample Received	: 15.10.2025
11	Date of Analysis	: 16.10.2025
12	Date of Analysis Completion	: 22.10.2025
13	Report Issue Date	: <b>04.11.2025</b>
14.	Report Number	: <b>GEMS/SW/2025-26/3045</b>

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
				<b>Sample Code</b>	<b>5891</b>
6.	Color	APHA 24th Edition -2120 C:2023	Hazen	10	300
7.	Arsenic as As	APHA 24th Edition 3114- B : 2023	mg/L	<0.01	0.2
8.	Dissolved Oxygen	APHA 24th Edition 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 <sub>6</sub> H <sub>5</sub> OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	0.005
11.	Chromium (as Cr <sup>6+</sup> )	APHA 24th Edition 3500 Cr-B:2023	mg/L	BDL	1.0
12.	<b>Total Coliform Organisms,</b>				
	Total Coli forms	IS :1622:1981	MPN/100 ml	50	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  
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Chemist

  
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