



# BMM Ispat Ltd.,

## ENVIRONMENTAL MONITORING REPORT



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

**NOVEMBER-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:02.12.2025

  
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 **NOVEMBER-2025**. The Parameters monitored are:

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

**2.0 Fugitive Emission Monitoring**

Fugitive air quality was monitored 112 samples were collected from the analyzed for SPM analyzed by gravimetric method. Work Zone Air quality was monitored at all Plant area and material handling area.

**3.0 Stack Monitoring**

Stack Monitoring was Collected from Vayubodhak/ VBSS2 stack monitoring was used for drawing the flue gas. Sulphur dioxide and oxides of Nitrogen in the flue gas was sampled by bubbling flue gas solution respectively and the analyses of the pollutants were done as per the Indian Standard procedures prescribed by CPCB/BIS. Stack Emission level was monitored as per the statutory requirement on twice in a month.

**DATA ANALYSIS****3.1 BUFFERZONE AMBIENT AIR QUALITY STATUS****Danapur Village (A1)**

At this location, average of PM10, PM2.5, SO2, NO2 values Average 60.00 , 16.64, 8.11& 9.64 µg/m3 respectively. All above the values were found within the Limits. And the results given in **Annexure-1**.

**Mariyammanahalli Village (A2)**

At this location, average of PM10, PM2.5, SO2, NO2 values Average 54.97, 14.69, 8.46 & 10.26 µg/m3 respectively. All above the values were found within the Limits. And the results given in **Annexure-2**.

**Hanumanahalli Village (A3)**

At this location, average of PM10, PM2.5, SO2, NO2 values Average 59.00, 13.52, 7.99 & 10.29 µg/m3 respectively. All above the values were found within the Limits. Results given in **Annexure-3**.

**Galemmanagudi Village (A4)**

At this location, average of PM10, PM2.5, SO2, NO2 values Average 62.02, 16.15, 10.10 & 12.44 µg/m3 respectively. All above the values were found within the Limits. Results given in **Annexure-4**.

**G Nagalapura Village (A5)**

At this location, average of PM10, PM2.5, SO2, NO2 values Average 49.98, 10.21, 7.34 & 9.16  $\mu\text{g}/\text{m}^3$  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 50.85, 12.72, 7.14 & 8.43  $\mu\text{g}/\text{m}^3$  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 157.28  $\mu\text{g}/\text{m}^3$ , maximum value 1941.80  $\mu\text{g}/\text{m}^3$  and average value 925.55  $\mu\text{g}/\text{m}^3$ . 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 10.84  $\text{mg}/\text{Nm}^3$ , Maximum Value 37.02  $\text{mg}/\text{Nm}^3$  & Average Value 23.52  $\text{mg}/\text{Nm}^3$ . 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 42.6 to 72.4 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.



GEMS



NABET

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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:01.07.2025B  
 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 : **NOVEMBER-2025**  
 Location : **A1-Danapur Village**  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **ULR-TC1618025000003190F**

**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				
03.11.2025	04.11.2025	6293	66.71	100	19.30	60	9.13	80	10.66	80				
04.11.2025	05.11.2025	6334	51.14		12.03		8.26		9.47					
10.11.2025	11.11.2025	6560	67.62		18.32		8.39		11.27					
11.11.2025	12.11.2025	6607	54.88		15.75		8.60		9.64					
17.11.2025	18.11.2025	6755	63.17		17.40		7.28		8.65					
18.11.2025	19.11.2025	6795	44.97		20.65		7.20		10.66					
24.11.2025	25.11.2025	6993	75.13		15.54		8.86		9.14					
25.11.2025	26.11.2025	7027	56.36		14.11		7.13		7.59					
<b>Average</b>			<b>60.00</b>				<b>16.64</b>				<b>8.11</b>		<b>9.64</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.
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**\*\*End of the Report\*\***

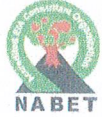
*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

Global Environment & Mining Services  
HOSPET

**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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Website : www.gemslp.in

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

### ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 Customer Reference : WORKORDER NO.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 : NOVEMBER-2025  
 Location : A1-Danapur Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 02.12.2025  
 Report Number : GEMS/BMMIL/NAAQ/2025-26/3190


#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6293	0.12	4.0
2	04.11.2025	6334	0.16	
3	10.11.2025	6560	0.10	
4	11.11.2025	6607	0.12	
5	17.11.2025	6755	0.14	
6	18.11.2025	6795	0.10	
7	24.11.2025	6993	0.10	
8	25.11.2025	7027	0.10	

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  
 Samreen P  
 Chemist

  
 Authorized Signatory  
 K. Ramakrishna Reddy  
 Technical Manager



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

# AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

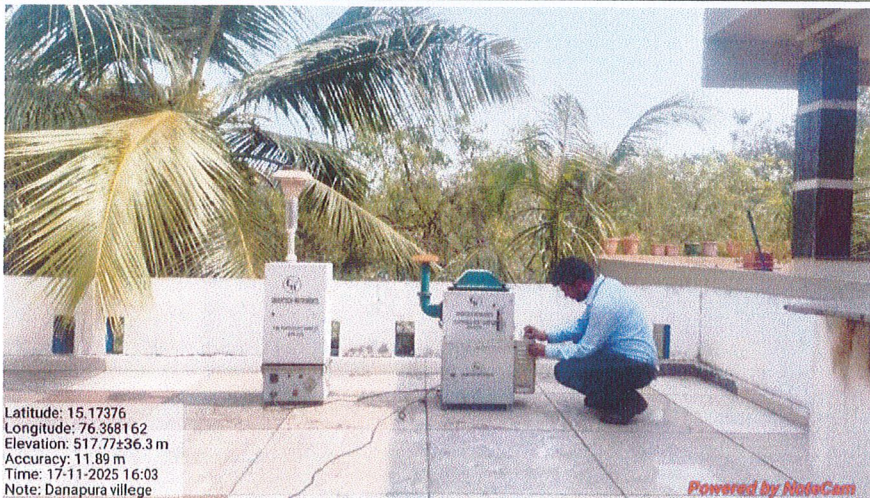


# AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

Near VRM Hospital



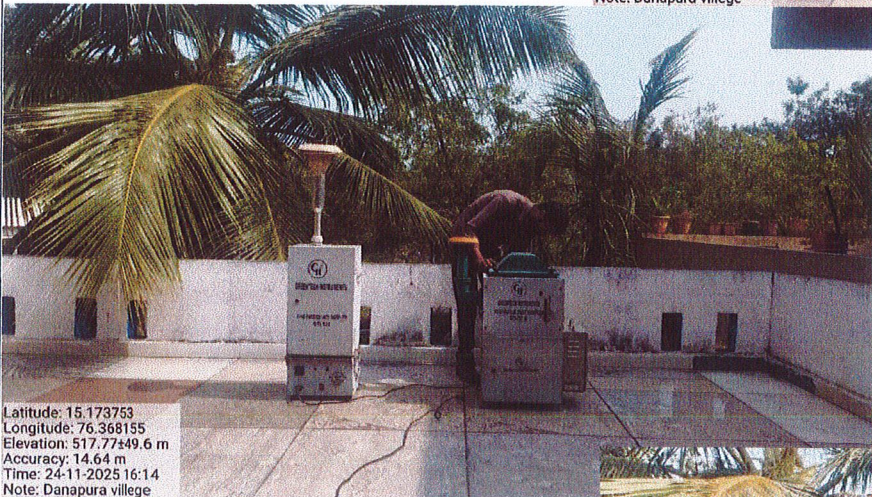
Latitude: 15.17376  
Longitude: 76.368162  
Elevation: 517.77±36.3 m  
Accuracy: 11.89 m  
Time: 17-11-2025 16:03  
Note: Danapura villege

Powered by NoteCam



Latitude: 15.173733  
Longitude: 76.368197  
Elevation: 517.77±36.8 m  
Accuracy: 13.05 m  
Time: 18-11-2025 15:49  
Note: Danapura villege

Powered by NoteCam



Latitude: 15.173753  
Longitude: 76.368155  
Elevation: 517.77±49.6 m  
Accuracy: 14.64 m  
Time: 24-11-2025 16:14  
Note: Danapura villege

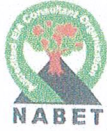


Latitude: 15.173758  
Longitude: 76.368155  
Elevation: 517.77±49.6 m  
Accuracy: 14.98 m  
Time: 25-11-2025 16:42  
Note: Danapura villege

Powered by NoteCam



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TC-16180

**ANNEXURE-02**  
**GEMS-LD/TF/11/01****ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA**

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 Customer Reference : WORKORDER NO.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 : **NOVEMBER-2025**  
 Location : **A2-Mariyammanahalli Village**  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **ULR-TC1618025000003191F**

**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				
03.11.2025	04.11.2025	6294	52.24	100	16.79	60	9.57	80	11.17	80				
04.11.2025	05.11.2025	6335	47.24		18.52		7.21		8.01					
10.11.2025	11.11.2025	6561	53.98		11.63		10.07		12.12					
11.11.2025	12.11.2025	6608	56.85		13.91		8.41		9.39					
17.11.2025	18.11.2025	6756	63.70		16.04		9.54		11.13					
18.11.2025	19.11.2025	6796	46.57		11.07		7.31		8.53					
24.11.2025	25.11.2025	6994	60.69		16.29		7.48		9.57					
25.11.2025	26.11.2025	7028	58.51		13.28		8.11		12.12					
<b>Average</b>			<b>54.97</b>				<b>14.69</b>				<b>8.46</b>		<b>10.26</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
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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

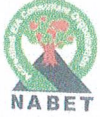
*K. Ramakrishna Reddy*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager


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- 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 : **NOVEMBER-2025**  
 Location : **A2-Mariyammanahalli Village**  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **GEMS/BMM/NAAQ/2025-26/3191**

**RESULTS**

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6294	0.16	4.0
2	04.11.2025	6335	0.10	
3	10.11.2025	6561	<0.01	
4	11.11.2025	6608	<0.01	
5	17.11.2025	6756	0.14	
6	18.11.2025	6796	<0.01	
7	24.11.2025	6994	0.12	
8	25.11.2025	7028	<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  
 Samreen P  
 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 : Mariyammana Halli

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



Latitude: 15.163285  
Longitude: 76.356125  
Elevation: 532.57±24.5 m  
Accuracy: 3.5 m  
Time: 03-11-2025 18:16  
Note: Mariyammanahalli villege

Powered by NoteCam



Latitude: 15.163285  
Longitude: 76.35616  
Elevation: 532.57±30.6 m  
Accuracy: 129.4 m  
Time: 04-11-2025 17:53  
Note: Mariyammanahalli villege

Powered by NoteCam



Latitude: 15.163263  
Longitude: 76.356136  
Elevation: 530.27±35.5 m  
Accuracy: 100.6 m  
Time: 10-11-2025 07:53  
Note: Mariyammanahalli villege



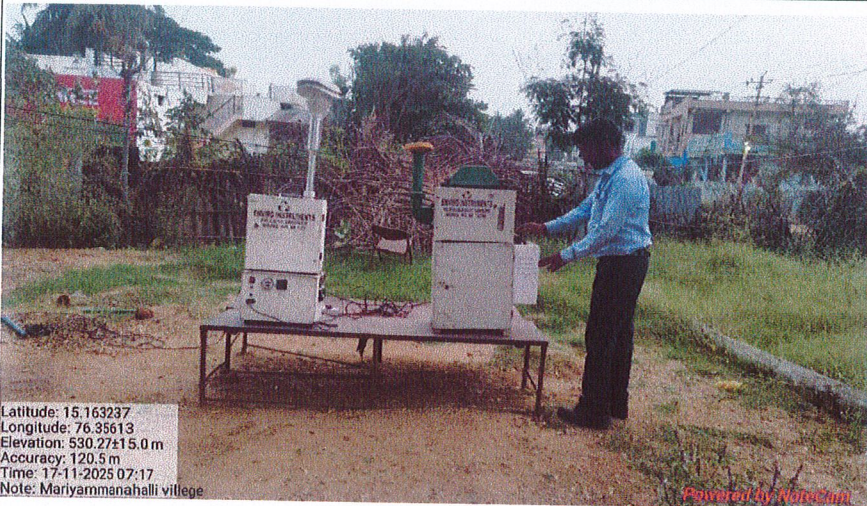
Latitude: 15.163261  
Longitude: 76.356143  
Elevation: 532.57±21.0 m  
Accuracy: 1.7 m  
Time: 11-11-2025 08:03  
Note: Mariyammanahalli villege

Powered by NoteCam

# AMBIENT AIR QUALITY MONITORING STATION

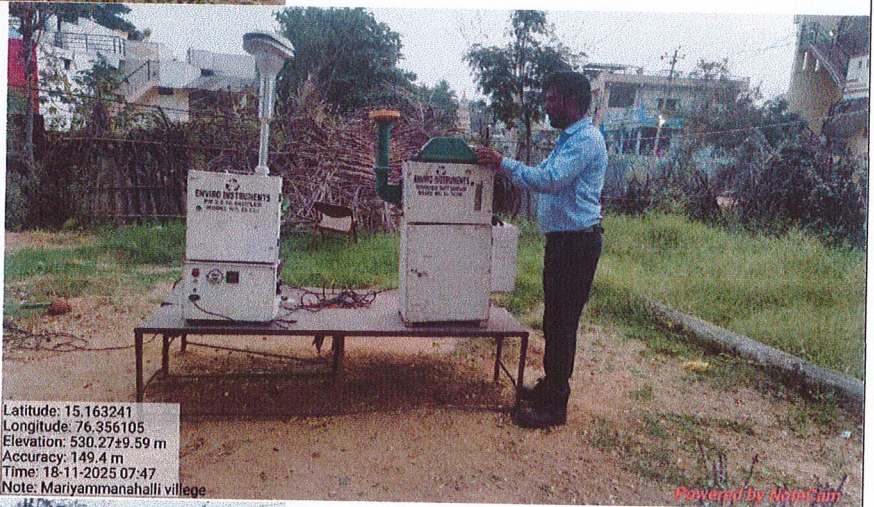
Location : Mariyammana Halli

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



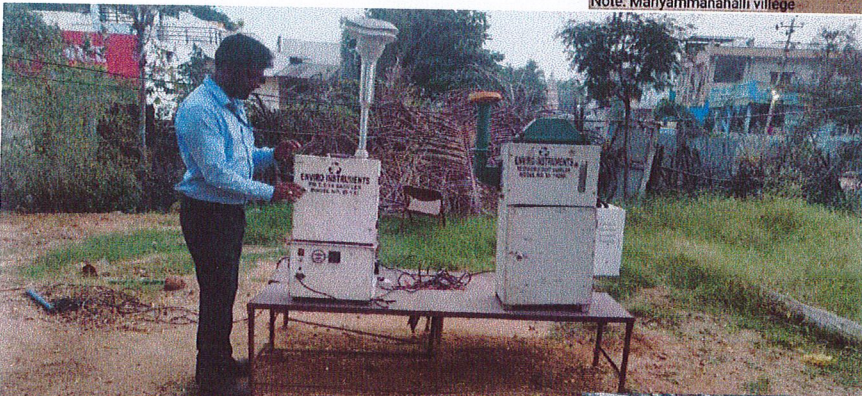
Latitude: 15.163237  
Longitude: 76.35613  
Elevation: 530.27±15.0 m  
Accuracy: 120.5 m  
Time: 17-11-2025 07:17  
Note: Mariyammanahalli villege

Powered by NoteSun



Latitude: 15.163241  
Longitude: 76.356105  
Elevation: 530.27±9.59 m  
Accuracy: 149.4 m  
Time: 18-11-2025 07:47  
Note: Mariyammanahalli villege

Powered by NoteSun



Latitude: 15.163226  
Longitude: 76.356139  
Elevation: 530.27±18.5 m  
Accuracy: 190.5 m  
Time: 24-11-2025 18:13  
Note: Mariyammanahalli villege



Latitude: 15.163263  
Longitude: 76.356137  
Elevation: 532.57±30.8 m  
Accuracy: 1.3 m  
Time: 25-11-2025 17:49  
Note: Mariyammanahalli villege

Powered by NoteSun



GEMS



NABET

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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

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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 : **NOVEMBER-2025**  
 Location : **A3-Hanumanahalli Village**  
 Duration of Monitoring : 24 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **ULR-TC1618025000003192F**

**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
03.11.2025	04.11.2025	6295	54.61	100	14.43	60	8.61	80	11.51	80
04.11.2025	05.11.2025	6336	67.61		16.40		7.77		9.86	
10.11.2025	11.11.2025	6562	61.88		18.21		9.13		10.11	
11.11.2025	12.11.2025	6609	67.17		10.77		7.59		10.47	
17.11.2025	18.11.2025	6757	64.08		10.38		7.37		10.49	
18.11.2025	19.11.2025	6797	52.65		10.44		7.77		8.24	
24.11.2025	25.11.2025	6995	46.54		12.85		8.00		10.01	
25.11.2025	26.11.2025	7029	57.42		14.65		7.63		11.61	
<b>Average</b>			<b>59.00</b>				<b>13.52</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\*\***

*Samreen.p*  
Analysed By  
Samreen P  
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.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems\_hpt@yahoo.com

Website : www.gemslp.in

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

## ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 Customer Reference : WORKORDER NO.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 : NOVEMBER-2025  
 Location : A3-Hanumanahalli Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 02.12.2025  
 Report Number : GEMS/BMM/NAAQ/2025-26/3192

### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6295	0.14	4.0
2	04.11.2025	6336	0.10	
3	10.11.2025	6562	0.12	
4	11.11.2025	6609	0.14	
5	17.11.2025	6757	0.10	
6	18.11.2025	6797	0.10	
7	24.11.2025	6995	0.12	
8	25.11.2025	7029	0.10	

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	

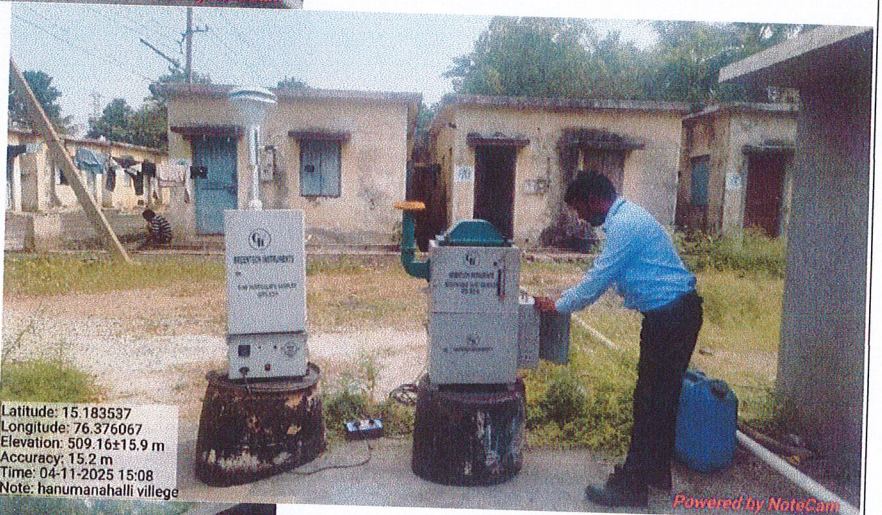
Analysed By  
Samreen P  
Chemist

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**



# AMBIENT AIR QUALITY MONITORING STATION

Location: Hanumanahalli

Address: BMM OHC Hospital Hanumanahalli Near STP



Latitude: 15.183511  
Longitude: 76.376022  
Elevation: 503.06±21.3 m  
Accuracy: 82.86 m  
Time: 17-11-2025 15:52  
Note: hanumanahalli villege



Latitude: 15.183547  
Longitude: 76.376023  
Elevation: 505.06±14.8 m  
Accuracy: 3.74 m  
Time: 18-11-2025 15:21  
Note: hanumanahalli villege

Powered by NoteCam



Latitude: 15.183516  
Longitude: 76.376013  
Elevation: 502.36±16.5 m  
Accuracy: 2.0 m  
Time: 24-11-2025 16:07  
Note: hanumanahalli villege

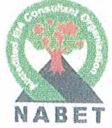


Latitude: 15.183521  
Longitude: 76.376027  
Elevation: 498.76±17.0 m  
Accuracy: 1.7 m  
Time: 25-11-2025 15:48  
Note: hanumanahalli villege

Powered by NoteCam



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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

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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 : **NOVEMBER-2025**  
 Location : **A4-Galemmanagudi Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **02.12.2025**  
 Report Number : **ULR-TC161802500003193F**

### 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
03.11.2025	04.11.2025	6296	58.40	100	13.99	60	8.62	80	9.84	80
04.11.2025	05.11.2025	6337	63.55		15.92		12.63		14.58	
10.11.2025	11.11.2025	6563	55.45		17.57		11.17		12.06	
11.11.2025	12.11.2025	6610	65.44		19.35		10.13		13.80	
17.11.2025	18.11.2025	6758	65.88		13.16		9.15		11.65	
18.11.2025	19.11.2025	6798	72.14		19.57		10.39		12.06	
24.11.2025	25.11.2025	6996	60.34		15.25		10.13		14.54	
25.11.2025	26.11.2025	7030	54.94		14.38		8.60		10.95	
<b>Average</b>			<b>62.02</b>				<b>16.15</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
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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

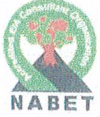
*K. Ramakrishna Reddy*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager


**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.
- 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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**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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

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Ph : 08394 355369

e-mail : gems\_hpt@yahoo.com

Website : www.gemslip.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 : **NOVEMBER-2025**  
 Location : **A4-Galemmanagudi Village**  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **GEMS/BMM/NAAQ/2025-26/3193**

**RESULTS**

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6296	0.18	4.0
2	04.11.2025	6337	0.14	
3	10.11.2025	6563	0.10	
4	11.11.2025	6610	0.16	
5	17.11.2025	6758	0.12	
6	18.11.2025	6798	0.18	
7	24.11.2025	6996	0.12	
8	25.11.2025	7030	0.18	

**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
-----------	---

*Samreen.p*  
 Analysed By  
 Samreen P  
 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**



Latitude: 15.192222  
Longitude: 76.376848  
Elevation: 500.05±20.9 m  
Accuracy: 4.556 m  
Time: 03-11-2025 16:27  
Note: Galemmanagudi villege



Latitude: 15.192252  
Longitude: 76.376873  
Elevation: 498.95±25.6 m  
Accuracy: 1.8 m  
Time: 04-11-2025 16:12  
Note: Galemmanagudi villege

Powered by NoteCam



Latitude: 15.192205  
Longitude: 76.376848  
Elevation: 498.65±22.6 m  
Accuracy: 5.32 m  
Time: 10-11-2025 17:04  
Note: Galemmanagudi villege



Latitude: 15.192236  
Longitude: 76.376863  
Elevation: 504.05±21.5 m  
Accuracy: 3.648 m  
Time: 11-11-2025 16:53  
Note: Galemmanagudi villege

Powered by NoteCam

# 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: 15.192233  
Longitude: 76.376866  
Elevation: 499.95±17.2 m  
Accuracy: 4.284 m  
Time: 17-11-2025 16:18  
Note: Galemmanagudi villege



Latitude: 15.192261  
Longitude: 76.376859  
Elevation: 495.65±20.4 m  
Accuracy: 127.9 m  
Time: 18-11-2025 16:41  
Note: Galemmanagudi villege

Powered by NoteCam



Latitude: 15.191673  
Longitude: 76.376932  
Altitude: 413.0±18.3 m  
Accuracy: 200.0 m  
Time: 24-11-2025 16:08  
Note: Galemmanagudi villege



Latitude: 15.192238  
Longitude: 76.37687  
Elevation: 510.95±35.5 m  
Accuracy: 7.58 m  
Time: 25-11-2025 16:52  
Note: Galemmanagudi villege

Powered by NoteCam



GEMS

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Website : www.gemslp.in



TC-16180

ANNEXURE-05  
GEMS-LD/TF/11/01**ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA**

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 Customer Reference : WORKORDER NO.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 : **NOVEMBER-2025**  
 Location : **A5-G Nagalapura Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **02.12.2025**  
 Report Number : **ULR-TC1618025000003194F**

**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				
03.11.2025	04.11.2025	6297	48.76	100	10.62	60	7.27	80	9.06	80				
04.11.2025	05.11.2025	6338	50.29		9.21		7.25		8.88					
10.11.2025	11.11.2025	6566	53.89		9.82		6.36		9.19					
11.11.2025	12.11.2025	6611	46.83		8.33		8.78		9.81					
17.11.2025	18.11.2025	6759	42.47		10.92		7.20		8.00					
18.11.2025	19.11.2025	6799	54.36		11.68		7.32		8.70					
24.11.2025	25.11.2025	6997	45.73		10.30		7.55		10.53					
25.11.2025	26.11.2025	7031	57.51		10.82		7.04		9.12					
<b>Average</b>			<b>49.98</b>				<b>10.21</b>				<b>7.34</b>		<b>9.16</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
3	Serial No	R.D.S. / 198-C-21	PM2.5 /PM10 Sampler /161-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\*\***

*Samreen P*  
Analysed By  
Samreen P  
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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3<sup>rd</sup> Main Road, Basaveswara Badavane,

**HOSAPETE - 583201**, Dist., Vijayanagara (Karnataka)

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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 : **NOVEMBER-2025**  
 Location : **A5- G Nagalapura Village**  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : **02.12.2025**  
 Report Number : **GEMS/BMMIL/ NAAQ /2025-26/3194**

### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6297	<0.01	4.0
2	04.11.2025	6338	<0.01	
3	10.11.2025	6566	<0.01	
4	11.11.2025	6611	<0.01	
5	17.11.2025	6759	<0.01	
6	18.11.2025	6799	<0.01	
7	24.11.2025	6997	<0.01	
8	25.11.2025	7031	<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
-----------	---

*Samreen.p*  
 Analysed By  
 Samreen P  
 Chemist

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

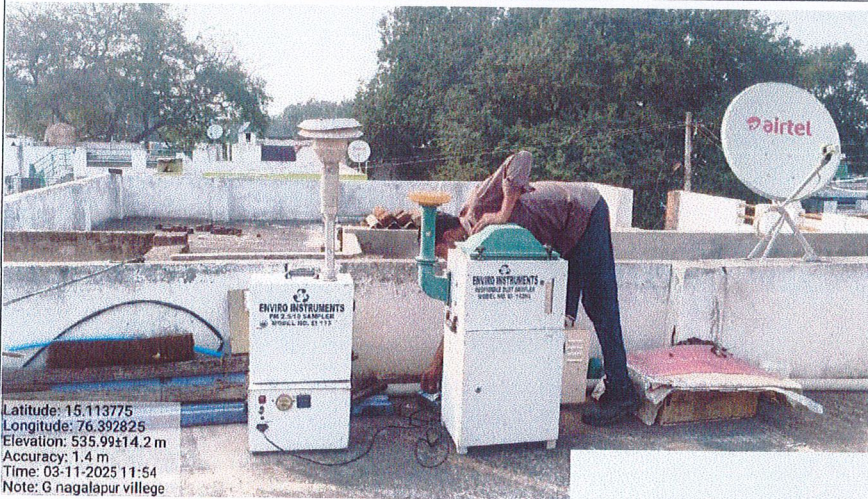


- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

# AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

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



Latitude: 15.113775  
Longitude: 76.392825  
Elevation: 535.99±14.2 m  
Accuracy: 1.4 m  
Time: 03-11-2025 11:54  
Note: G nagalapur villege



Latitude: 15.113787  
Longitude: 76.392835  
Elevation: 534.59±12.9 m  
Accuracy: 1.1 m  
Time: 04-11-2025 12:07  
Note: G nagalaour villege

Powered by NoteCam



Latitude: 15.113775  
Longitude: 76.392815  
Elevation: 536.09±13.8 m  
Accuracy: 1.7 m  
Time: 10-11-2025 12:46  
Note: G nagalapur villege



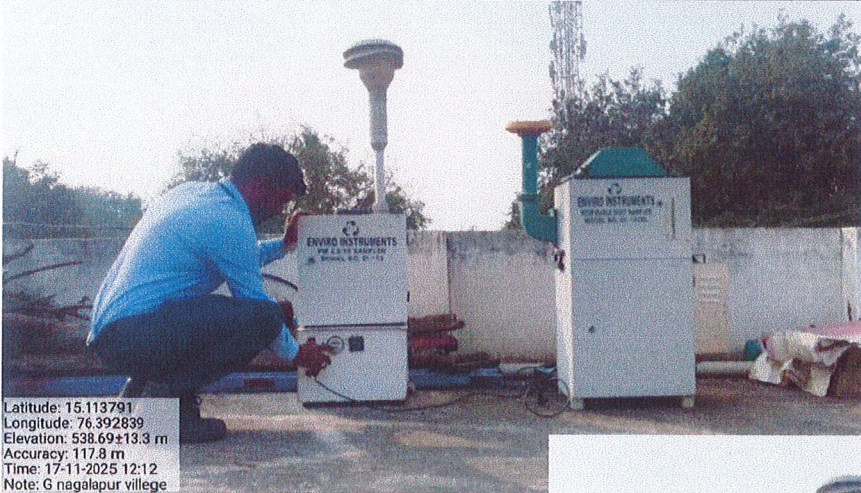
Latitude: 15.11379  
Longitude: 76.392815  
Elevation: 537.59±12.5 m  
Accuracy: 2.751 m  
Time: 11-11-2025 11:48  
Note: G nagalapur villege

Powered by NoteCam

# 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: 15.113791  
Longitude: 76.392839  
Elevation: 538.69±13.3 m  
Accuracy: 117.8 m  
Time: 17-11-2025 12:12  
Note: G nagalapur villege



Latitude: 15.113803  
Longitude: 76.392804  
Elevation: 538.79±14.7 m  
Accuracy: 25.29 m  
Time: 18-11-2025 12:27  
Note: G nagalapur villege

Powered by NoteCam



Latitude: 15.113824  
Longitude: 76.392835  
Elevation: 535.59±17.1 m  
Accuracy: 3.458 m  
Time: 24-11-2025 11:46  
Note: G nagalapur villege

Powered by NoteCam



Latitude: 15.113795  
Longitude: 76.392814  
Elevation: 539.09±19.2 m  
Accuracy: 1.6 m  
Time: 25-11-2025 12:10  
Note: G nagalapur villege

Powered by NoteCam



GEMS



NABET

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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

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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 : **NOVEMBER-2025**  
 Location : **A6-Gunda Tanda Village**  
 Duration of Monitoring : 24 Hour  
 Report Issue Date : **02.12.2025**  
 Report Number : **ULR-TC161802500003195F**

**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
03.11.2025	04.11.2025	6298	54.28	100	13.81	60	6.72	80	7.29	80
04.11.2025	05.11.2025	6339	47.60		11.32		7.19		7.76	
10.11.2025	11.11.2025	6567	53.24		13.19		7.27		8.82	
11.11.2025	12.11.2025	6612	50.72		16.47		6.53		7.55	
17.11.2025	18.11.2025	6760	57.35		14.12		8.13		9.41	
18.11.2025	19.11.2025	6800	44.85		9.51		7.47		10.18	
24.11.2025	25.11.2025	6998	51.56		10.74		7.35		8.50	
25.11.2025	26.11.2025	7032	47.22		12.64		6.43		7.96	
<b>Average</b>			<b>50.85</b>				<b>12.72</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
3	Serial No	R.D.S./200-C-21	PM2.5 /PM10 Sampler / 158-K-20
4	Calibration Date	24.07.2025	25.04.2025
5	Calibration Due Date	23.07.2026	24.04.2026

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

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

Analysed By  
Samreen P  
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-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 : NOVEMBER-2025  
 Location : A6-Gunda Tanda Village  
 Duration of Monitoring : 1 Hour  
 Report Issued Date : 02.12.2025  
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/3195

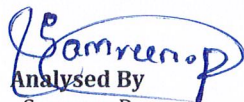
#### RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m <sup>3</sup> ]	Standard
1	03.11.2025	6298	<0.01	4.0
2	04.11.2025	6339	<0.01	
3	10.11.2025	6567	<0.01	
4	11.11.2025	6612	<0.01	
5	17.11.2025	6760	<0.01	
6	18.11.2025	6800	<0.01	
7	24.11.2025	6998	<0.01	
8	25.11.2025	7032	<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  
 Samreen P  
 Chemist

  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager



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

# AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's  
Gunda Thanda



Latitude: 15.153162  
Longitude: 76.387009  
Elevation: 525.1±19.0 m  
Accuracy: 1.7 m  
Time: 03-11-2025 13:47  
Note: Gunda thanda villege



Latitude: 15.15313  
Longitude: 76.387047  
Elevation: 518.32±19.7 m  
Accuracy: 1.6 m  
Time: 04-11-2025 14:02  
Note: Gunda thanda villege

Powered by NRI/ICMR



Latitude: 15.153152  
Longitude: 76.387062  
Elevation: 521.32±18.0 m  
Accuracy: 1.6 m  
Time: 10-11-2025 14:22  
Note: Gunda thanda villege



Latitude: 15.153143  
Longitude: 76.387029  
Elevation: 522.22±17.6 m  
Accuracy: 125.3 m  
Time: 11-11-2025 13:48  
Note: Gunda thanda villege

Powered by NRI/ICMR

# AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's

Gunda Thanda



Latitude: 15.153132  
Longitude: 76.387036  
Elevation: 524.02±18.1 m  
Accuracy: 1.7 m  
Time: 17-11-2025 14:03  
Note: Gunda thanda villege



Latitude: 15.153113  
Longitude: 76.387063  
Elevation: 524.12±19.7 m  
Accuracy: 4.731 m  
Time: 18-11-2025 14:32  
Note: Gunda thanda villege

Powered by NoteCam

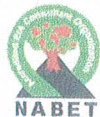


Latitude: 15.153135  
Longitude: 76.387072  
Elevation: 524.82±19.2 m  
Accuracy: 1.8 m  
Time: 24-11-2025 13:53  
Note: Gunda thanda villege



Latitude: 15.153109  
Longitude: 76.387062  
Elevation: 526.72±16.7 m  
Accuracy: 1.7 m  
Time: 25-11-2025 14:08  
Note: Gunda thanda villege

Powered by NoteCam



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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>NOVEMBER-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>02.12.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM /2025-26/3343</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	6526	08.11.2025	09.11.2025	1794.96	2000
2.	Near Iron Ore Bottom Hopper	6528	08.11.2025	09.11.2025	341.10	2000
3.	Iron Ore Screen	6524	08.11.2025	09.11.2025	558.15	2000
<b>II. Pellet Plant-I</b>						
4.	Near Pellet Plant	6522	08.11.2025	08.11.2025	1911.74	2000
5.	Annual Cooler Pellet Discharge bin	6523	08.11.2025	08.11.2025	719.98	2000
6.	Pellet Stock Yard	6551	10.11.2025	11.11.2025	1883.98	2000
<b>III. Sponge Iron Division-1 (kiln 1 &amp; 2)</b>						
7.	Control Room SID-1	6599	11.11.2025	12.11.2025	1062.61	2000
8.	Near Product bin	6600	11.11.2025	12.11.2025	957.40	2000
9.	Coal Feeding Area	6601	11.11.2025	12.11.2025	565.72	2000
<b>IV. Induction Furnace &amp; Rolling Mill - 1</b>						
10.	IF Office	6552	10.11.2025	11.11.2025	531.77	2000
11.	TMT Stock Yard	6553	10.11.2025	11.11.2025	490.76	2000
12.	RML Gasifier	6554	10.11.2025	11.11.2025	921.85	2000
<b>V. Power Plant 25 MW-1</b>						
13.	25 MW ESP	6602	11.11.2025	12.11.2025	586.51	2000
14.	25 MW ACC	6603	11.11.2025	12.11.2025	1007.01	2000
<b>VI. Site Services</b>						
15.	PGP- coal handling system	6555	10.11.2025	11.11.2025	229.63	2000
16.	IF Slag Crusher	6598	11.11.2025	12.11.2025	167.84	2000
17.	Main Gate	6639	12.11.2025	13.11.2025	1035.61	2000
18.	Fly ash Dump	6451	07.11.2025	08.11.2025	495.50	2000

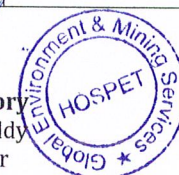
Note: SPM- Suspended Particulate matter. ( $\mu\text{g}/\text{m}^3$ ), INFERENCE: The Measured Values are within the limits.

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\*\***

Analysed By  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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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>NOVEMBER-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>02.12.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/3411</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	6936	22.11.2025	22.11.2025	1941.51	2000
2.	Near Iron Ore Bottom Hopper	6935	22.11.2025	22.11.2025	261.43	2000
3.	Iron Ore Screen	6934	22.11.2025	22.11.2025	1072.62	2000
<b>II. Pellet Plant-I</b>						
4.	Near Pellet Plant	6932	22.11.2025	22.11.2025	771.14	2000
5.	Annual Cooler Pellet Discharge bin	6933	22.11.2025	22.11.2025	1807.47	2000
6.	Pellet Stock Yard	6981	24.11.2025	25.11.2025	682.82	2000
<b>III. Sponge Iron Division-1(kiln 1 &amp; 2)</b>						
7.	Control Room SID-I	7019	25.11.2025	26.11.2025	538.30	2000
8.	Near Product bin	7020	25.11.2025	26.11.2025	1550.01	2000
9.	Coal Feeding Area	7021	25.11.2025	26.11.2025	349.33	2000
<b>IV. Induction Furnace &amp; Rolling Mill</b>						
10.	IF Office	6982	24.11.2025	25.11.2025	846.78	2000
11.	TMT Stock Yard	6983	24.11.2025	25.11.2025	1001.39	2000
12.	RML Gasifier	6984	24.11.2025	25.11.2025	1027.85	2000
<b>V. Power Plant 25 MW-1</b>						
13.	25 MW ESP	7022	25.11.2025	26.11.2025	603.66	2000
14.	25 MW ACC	7069	26.11.2025	27.11.2025	316.12	2000
<b>VI. Site Services</b>						
15.	PGP- Coal handling system	6985	24.11.2025	25.11.2025	243.63	2000
16.	IF Slag Crusher	7023	25.11.2025	26.11.2025	1449.36	2000
17.	Main Gate	7070	26.11.2025	27.11.2025	1075.56	2000
18.	Fly ash Dump	6894	21.11.2025	22.11.2025	431.92	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\*\*

*Samreen P*  
Analysed By  
Samreen P  
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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Website : www.gemslip.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.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 : **NOVEMBER-2025(1<sup>st</sup> Fort Night)**
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Method adopted : IS 5182 (Part 4): 1999 RA 2014
- 9 Report Issued Date : **02.12.2025**
- 10 Report Number : **GEMS/BMMIL/FM/2025-26/3351**

### 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	6640	12.11.2025	13.11.2025	1434.35	2000
2.	Stock House	6641	12.11.2025	13.11.2025	1909.37	2000
3.	Gas Network Area	6642	12.11.2025	13.11.2025	511.92	2000
4.	Blower Area	6671	13.11.2025	14.11.2025	157.28	2000
5.	Gas Cleaning plant (GCP)	6672	13.11.2025	14.11.2025	627.15	2000
6.	Stove Area	6673	13.11.2025	14.11.2025	615.98	2000
7.	Control ROOM (CR)	6674	13.11.2025	14.11.2025	1743.07	2000
8.	Pig Costing Machine (PCM)	6691	14.11.2025	15.11.2025	738.22	2000
9.	Slag Granulation Plant (SGP)	6692	14.11.2025	15.11.2025	645.87	2000
10.	Cost House Area	6675	13.11.2025	14.11.2025	1747.03	2000
<b>SMS Area</b>						
1.	Stock House/Vibro Feeders	6693	14.11.2025	15.11.2025	1442.49	2000
2.	Ladle Tapping	6694	14.11.2025	15.11.2025	1487.80	2000
3.	Slag pouring Area	6695	14.11.2025	15.11.2025	1030.19	2000
<b>MBM</b>						
1.	Near Re-Heating Furnace	6710	15.11.2025	15.11.2025	843.16	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\*\*

*Samreen P*  
Analysed By  
Samreen P  
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.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 : **NOVEMBER-2025(1<sup>st</sup>Fort Night)**
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Method adopted : IS 5182 (Part 4): 1999 RA 2014
- 9 Report Issued Date : **02.12.2025**
- 10 Report Number : **GEMS/BMMIL/FM/2025-26/3183**

### 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)	6281	03.11.2025	04.11.2025	182.99	2000
2.	Near Cone Crusher	6283	03.11.2025	04.11.2025	1535.20	2000
3.	Concentrate Thickner	6282	03.11.2025	04.11.2025	424.50	2000
<b>II. Pellet Plant</b>						
4.	PR-6	6284	03.11.2025	04.11.2025	793.69	2000
5.	Annual Cooler Pellet Discharge bin	6285	03.11.2025	04.11.2025	573.84	2000
6.	Additive Grinding Building	6322	04.11.2025	05.11.2025	491.34	2000
<b>III. Sponge Iron Division -2 (Kiln 3 &amp; 4)</b>						
7.	Control room	6362	05.11.2025	06.11.2025	488.14	2000
8.	Near Weigh bridge (dispatch)	6323	04.11.2025	05.11.2025	1441.55	2000
9.	Pellet Storage bin	6325	04.11.2025	05.11.2025	705.12	2000
10.	Transfer House area	6326	04.11.2025	05.11.2025	971.07	2000
11.	Production Separation Bin-PSB	6324	04.11.2025	05.11.2025	661.57	2000
<b>IV. Sponge Iron Division -3 (Kiln 5 &amp; 6)</b>						
12.	Near Control room	6363	05.11.2025	06.11.2025	1008.41	2000
13.	Near Coal Crusher	6365	05.11.2025	06.11.2025	1376.05	2000
14.	Near Product bin	6364	05.11.2025	06.11.2025	1266.59	2000
15.	Coal Dryer	6421	06.11.2025	07.11.2025	335.70	2000
<b>V. Wagon Tipper/RMHS</b>						
16.	Near Tipping point	6366	05.11.2025	06.11.2025	695.17	2000
17.	Monsoon Shed (CPU)	6422	06.11.2025	07.11.2025	324.92	2000
18.	MCC Room (2 <sup>nd</sup> Gate)	6425	06.11.2025	07.11.2025	202.11	2000
<b>Power plant -70M</b>						
19.	70MW-DM Plant (Near R.O. Plant)	6424	06.11.2025	07.11.2025	249.15	2000
20.	2 <sup>nd</sup> gateweigh bridge Near Coal Screen	6447	07.11.2025	08.11.2025	864.06	2000
21.	CFBC boiler	6423	06.11.2025	07.11.2025	593.52	2000
<b>VII. 2X70MW Power Plant</b>						
22.	Near Boiler	6450	07.11.2025	08.11.2025	753.81	2000
23.	Near Coal storage Shed	6448	07.11.2025	08.11.2025	1269.71	2000
24.	Dolochar Processing Area	6449	07.11.2025	08.11.2025	471.83	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\*\*

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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



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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>NOVEMBER-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>02.12.2025</b>
10	Report Number	:	<b>GEMS/BMMIL/FM/2025-26/3383</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)	6744	17.11.2025	18.11.2025	249.30	2000
2.	Near Cone Crusher	6756	17.11.2025	18.11.2025	543.15	2000
3.	Concentrate Thickner	6755	17.11.2025	18.11.2025	397.42	2000
<b>II. Pellet Plant-I</b>						
4.	PR-6	6747	17.11.2025	18.11.2025	451.98	2000
5.	Annual Cooler Pellet Discharge bin	6748	17.11.2025	18.11.2025	1748.13	2000
6.	Additive Grinding Building	6836	19.11.2025	20.11.2025	381.85	2000
<b>III. Sponge Iron Division -2 (Kiln 3&amp;4)</b>						
7.	Control room	6784	18.11.2025	19.11.2025	1015.43	2000
8.	Near Weigh bridge (dispatch)	6785	18.11.2025	19.11.2025	454.16	2000
9.	Pellet Storage bin	6788	18.11.2025	19.11.2025	951.84	2000
10.	Transfer House area	6786	18.11.2025	19.11.2025	916.60	2000
11.	Production Separation Bin-PSB	6787	18.11.2025	19.11.2025	714.90	2000
<b>IV. Sponge Iron Division -2 (Kiln 5&amp;6)</b>						
12.	Near Control room	6837	19.11.2025	20.11.2025	850.43	2000
13.	Near Coal Crusher	6839	19.11.2025	20.11.2025	1834.46	2000
14.	Near Product bin	6838	19.11.2025	20.11.2025	1941.80	2000
15.	Coal Drier	6853	20.11.2025	21.11.2025	805.24	2000
<b>V. Wagon Tipper/RMHS</b>						
16.	Near Tipping point	6840	19.11.2025	20.11.2025	1853.62	2000
17.	Monsoon Shed (CPU)	6854	20.11.2025	21.11.2025	410.65	2000
18.	MCC Room (2 <sup>nd</sup> Gate)	6855	20.11.2025	21.11.2025	526.58	2000
<b>VI. Power Plant-70 MW</b>						
19.	70MW-DM Plant (Near R.O. Plant)	6856	20.11.2025	21.11.2025	331.22	2000
20.	2 <sup>nd</sup> gateweigh bridge Near Coal Screen	6890	21.11.2025	22.11.2025	678.14	2000
21.	CFBC boiler	6857	20.11.2025	21.11.2025	951.49	2000
<b>VII. 2X70MW Power Plant</b>						
22.	Near Boiler	6893	21.11.2025	22.11.2025	930.94	2000
23.	Near Coal storage Shed	6891	21.11.2025	22.11.2025	1798.17	2000
24.	CPP Dolochar Process Area	6892	21.11.2025	22.11.2025	1525.87	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  
Samreen P  
Chemist

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 : **NOVEMBER-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 : **02.12.2025**
- 10 Report Number : **GEMS/BMMIL/FM/2025-26/3417**

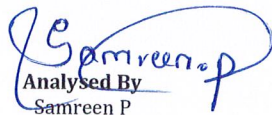
### RESULTS

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	7073	26.11.2025	27.11.2025	1645.50	<b>2000</b>
2.	Stock House	7071	26.11.2025	27.11.2025	866.34	<b>2000</b>
3.	Gas Network Area	7072	26.11.2025	27.11.2025	1036.23	<b>2000</b>
4.	Blower Area	7083	27.11.2025	28.11.2025	268.99	<b>2000</b>
5.	Gas Cleaning plant (GCP)	7084	27.11.2025	28.11.2025	1673.54	<b>2000</b>
6.	Stove Area	7085	27.11.2025	28.11.2025	1801.00	<b>2000</b>
7.	Control ROOM (CR)	7087	27.11.2025	28.11.2025	1763.21	<b>2000</b>
8.	Pig Costing Machine (PCM)	7109	28.11.2025	29.11.2025	1621.54	<b>2000</b>
9.	Slag Granulation Plant (SGP)	7108	28.11.2025	29.11.2025	427.83	<b>2000</b>
10.	Cost House Area	7086	27.11.2025	28.11.2025	1801.03	<b>2000</b>
<b>SMS Area</b>						
1.	Stock House/Vibro Feeders	7105	28.11.2025	29.11.2025	1835.53	<b>2000</b>
2.	Ladle Tapping	7106	28.11.2025	29.11.2025	1055.72	<b>2000</b>
3.	Slag pouring Area	7107	28.11.2025	29.11.2025	1286.74	<b>2000</b>
<b>MBM</b>						
1.	Near Re-Heating Furnace	7133	29.11.2025	29.11.2025	468.01	<b>2000</b>

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  
Samreen P  
Chemist

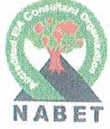
  
Authorised Signatory  
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Technical Manager



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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/ <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>Pellet Plant-1 ESP</b>
10	Month of Sampling	:	<b>NOVEMBER-2025</b>
11	Date of Sample Received	:	08.11.2025&18.11.2025
12	Date of Sample Analysis	:	10.11.2025&19.11.2025
13	Date of Sample Analysis completion	:	11.11.2025&20.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003311F</b>

**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	
				08.11.2025	18.11.2025	
	Date of Monitoring					
	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	54	58	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.64	5.28	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr	308771	289001	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	281276	259914	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	27.45	26.05	50
7	Sulphur Dioxide	IS: 11255 (Part 2); (RA 2014)	mg/Nm <sup>3</sup>	108	102	NS
8	Nitrogen Dioxide	IS:11255 (Part7); 2005 (RA 2017)	mg/Nm <sup>3</sup>	11	09	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.011	0.008	1

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

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

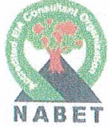
*K. Ramakrishna Reddy*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

**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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- 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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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>NOVEMBER-2025</b>
11	Date of Sample Received	:	06.11.2025&24.11.2025
12	Date of Sample Analysis	:	07.11.2025&25.11.2025
13	Date of Sample Analysis completion	:	08.11.2025&26.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003256F</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	
				06.11.2025	24.11.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	6429	6989	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	26	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	169	168	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr	6.11	6.05	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr	69151	76517	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	46610	50551	-
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm <sup>3</sup>	12.70	15.40	50
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	291	307	NS
9	Carbon Monoxide	GEMS/SOP/69	%	34	39	NS
				0.116	0.112	1

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

Analysed By  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

**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)

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Website : www.gemslip.in



TC-16180

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

## Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.  
 2 Customer Reference : WORKORDER NO.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 : NOVEMBER-2025(1st Fort Night)  
 10 Date of Sample Received : -  
 11 Date of Sample Analysis : -  
 12 Date of Sample Analysis completion : -  
 13 Report Issued Date : 02.12.2025  
 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/Nm <sup>3</sup>
<b>Induction Furnace 1 &amp; 2</b>											
1	Induction Furnace 1	-		Electric Power	-	-	-	30	1.2	-	150
2	Induction Furnace 2	-			-	-	-	30	1.3	-	150

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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\*\***

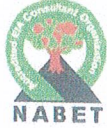
*K. Ramakrishna Reddy*  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager

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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/ <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>Rolling Mill Reheating furnace</b>
10	Month of Sampling	:	<b>NOVEMBER-2025</b>
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date of Sample Analysis completion	:	-
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	-

**Stack Details**

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

**Emission Details**

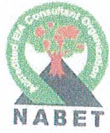
Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				-	-	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	Shutdown	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C			-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec			-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr			-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr			-
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	%			1

Note: NS- Not Specified. RA: Reaffirmed, **INFERENCE:****\*\*End of the Report\*\***

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

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

## Analysis Report of Stack Emission

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District
2	Customer Reference	:	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>AFBC Boiler ESP (25 MW Power Plant)</b>
10	Month of Sampling	:	<b>NOVEMBER-2025</b>
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date of Sample Analysis completion	:	-
14	Report Issued Date	:	<b>02.12.2025</b>
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	Shutdown	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C			-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec			-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m <sup>3</sup> /hr			-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm <sup>3</sup> /hr			-
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,

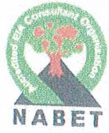
\*\*End of the Report\*\*

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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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
5	Instrument Details	:	Sl. No: Stack Monitoring Kit/ 32308
		:	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	:	NOVEMBER-2025(1st Fort Night)
10	Date of Sample Received	:	10.11.2025
11	Date of Sample Analysis	:	11.11.2025
12	Date of Sample Analysis completion	:	11.11.2025
13	Report Issued Date	:	02.12.2025
14	Report Number	:	ULR-TC1618025000003328F

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	10.11.2025	6557	-	30	35	4.45	30	0.4	14.66	50
2	Iron Ore Screen bin	10.11.2025	6558	-	30	36	4.37	30	0.4	16.97	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	2015	1944	-
2	Iron Ore Screen bin	1979	1901	-

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



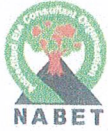
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TC-16180

**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/ **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 : **NOVEMBER-2025(1st Fort Night)**  
 10 Date of Sample Received : 08.11.2025 & 13.11.2025  
 11 Date of Sample Analysis : 09.11.2025 & 14.11.2025  
 12 Date of Sample Analysis completion : 09.11.2025 & 14.11.2025  
 13 Report Issued Date : **02.12.2025**  
 14 Report Number : **ULR-TC16180250000033112F**

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	08.11.2025	6528	-	30	35	4.78	6.5	0.50	17.34	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	08.11.2025	6529	-	29	34	4.88	3.0	0.30	19.65	50
7	Bentonite Powder bin top bag filter	13.11.2025	6530	-	28	34	4.88	3.0	0.30	19.00	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	13.11.2025	6677	-	29	38	5.05	7.0	0.50	25.61	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	3380	3258	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1242	1201	-
7	Bentonite Powder bin top bag filter	1243	1207	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3571	3418	-

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\*\***

*Samreen P*  
 Analysed By  
 Samreen P  
 Chemist

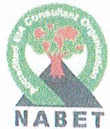
*K. Ramakrishna Reddy*  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager

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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 : NOVEMBER-2025(1st Fort Night)  
 10 Date of Sample Received : 12.11.2025  
 11 Date of Sample Analysis : 13.11.2025  
 12 Date of Sample Analysis completion : 13.11.2025  
 13 Report Issued Date : 02.12.2025  
 14 Report Number : ULR-TC1618025000003352F

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	12.11.2025	6643	---	27	33	4.63	30	1.20	20.96	50
11	Cooler-2 Discharge	-	-	---	-	-	-	30	1.20	-	50
12	Intermediate Bin & Blending	12.11.2025	6645	---	29	35	4.55	30	1.20	18.56	50
13	Product House	12.11.2025	6644	---	28	34	4.62	30	1.20	26.69	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	18865	18365	-
11	Cooler-2 Discharge	-	-	-
12	Intermediate Bin & Blending	18532	17911	-
13	Product House	18810	18205	-

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  
 Samreen P  
 Chemist

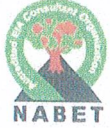
Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager

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TC-16180

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 : **NOVEMBER-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 : **02.12.2025**  
 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/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\*\***

*ma*  
**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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Website : www.gemslp.in



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 : NOVEMBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 22.11.2025
- 11 Date of Sample Analysis : 24.11.2025
- 12 Date of Sample Analysis completion : 24.11.2025
- 13 Report Issued Date : 02.12.2025
- 14 Report Number : ULR-TC1618025000003369F

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	22.11.2025	6939	---	27	32	4.56	30	0.40	16.45	50
2	Iron Ore Screen bin	22.11.2025	6940	---	28	33	4.46	30	0.40	13.76	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	2064	2010	-
2	Iron Ore Screen bin	2016	1956	-

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\*\*

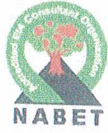
  
Analysed By  
Samreen P  
Chemist

  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



### Note:

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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/ <b>VBSS2</b>   |
| 5  | Instrument Details                 | : | Sl. No: Stack Monitoring Kit/ <b>32308</b><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>NOVEMBER-2025(2nd Fort Night)</b>   |
| 10 | Date of Sample Received            | : | 21.11.2025   |
| 11 | Date of Sample Analysis            | : | 22.11.2025   |
| 12 | Date of Sample Analysis completion | : | 22.11.2025   |
| 13 | Report Issued Date                 | : | <b>02.12.2025</b>  |
| 14 | Report Number                      | : | <b>ULR-TC1618025000003390F</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>RMHS</b>											
3	Screen, Coal Crusher (CPU)	21.11.2025	6895	-	28	38	4.56	30	1.50	33.08	50
4	Main Crusher	21.11.2025	6896	-	29	35	4.42	25	0.50	12.98	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)	29022	27743	-
4	Main Crusher	3128	3018	-

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  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

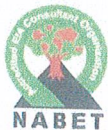


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TC-16180

**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/ <b>VBSS2</b>   |
| 5  | Instrument Details                 | : | Sl. No: Stack Monitoring Kit/ <b>32308</b><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>NOVEMBER-2025(2nd Fort Night)</b>   |
| 10 | Date of Sample Received            | : | 18.11.2025&20.11.2025  |
| 11 | Date of Sample Analysis            | : | 19.11.2025&21.11.2025  |
| 12 | Date of Sample Analysis completion | : | 19.11.2025&21.11.2025  |
| 13 | Report Issued Date                 | : | <b>02.12.2025</b>  |
| 14 | Report Number                      | : | <b>ULR-TC1618025000003391F</b>   |

SI. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/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	18.11.2025	6790	---	27	32	4.64	6.5	0.50	17.51	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	18.11.2025	6791	---	27	33	4.97	3.0	0.30	21.79	50
7	Bentonite Powder bin top bag filter	18.11.2025	6792	---	28	34	4.73	3.0	0.30	20.48	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	20.11.2025	6861	---	27	36	4.87	7.0	0.50	23.88	50

SI. 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	3282	3201	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1264	1226	-
7	Bentonite Powder bin top bag filter	1205	1164	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3441	3309	-

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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

**Note:**

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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 : NOVEMBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 28.11.2025 & 29.11.2025
- 11 Date of Sample Analysis : 29.11.2025 & 01.12.2025
- 12 Date of Sample Analysis completion : 29.11.2025 & 01.12.2025
- 13 Report Issued Date : 02.12.2025
- 14 Report Number : ULR-TC1618025000003439F

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>
<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	28.11.2025	7110	---	27	32	4.36	30	1.20	19.49	50
11	Cooler-2 Discharge	-		---	-	-	-	30	1.20	-	50
12	Intermediate Bin & Blending	29.11.2025	7134	---	25	31	4.58	30	1.20	21.52	50
13	Product House	29.11.2025	7135	---	26	31	4.32	30	1.20	27.46	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	17747	17290	-
11	Cooler-2 Discharge	-	-	-
12	Intermediate Bin & Blending	18631	18261	-
13	Product House	17608	17190	-

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\*\*

*Samreen P*  
Analysed By  
Samreen P  
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>
5	Instrument Details	: Sl. No: Stack Monitoring Kit/ <b>32308</b> 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>Pellet Plant-2 ESP</b>
10	Month of Sampling	: <b>NOVEMBER -2025</b>
11	Date of Sample Received	: 03.11.2025&17.11.2025
12	Date of Sample Analysis	: 04.11.2025&18.11.2025
13	Date Sample Analysis Completion	: 05.11.2025&19.11.2025
14	Report Issued Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003184F</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	
				03.11.2025	17.11.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	71	68	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.33	5.50	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	291797	301207	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	252512	263156	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	29.33	27.76	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	153	144	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm <sup>3</sup>	29	24	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.015	0.012	1%

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

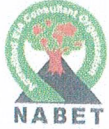
Global Environment & Mining Services  
HOSPET

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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>
5	Instrument Details	:	Sl. No: Stack Monitoring Kit/ <b>32308</b> 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>SID Axis 3&amp;4</b>
10	Month of Sampling	:	<b>NOVEMBER -2025</b>
11	Date of Sample Received	:	04.11.2025&20.11.2025
12	Date of Sample Analysis	:	05.11.2025&21.11.2025
13	Date Sample Analysis Completion	:	06.11.2025&22.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003210F</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	
				04.11.2025	20.11.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	121	125	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.06	5.73	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	154136	145890	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	116427	109033	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	25.48	29.21	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	347	294	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm <sup>3</sup>	27	27	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.081	0.038	1%

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

Global Environment & Mining Services  
HOSPET

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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> 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>SID Axis 5&amp;6</b>
10	Month of Sampling	:	<b>NOVEMBER -2025</b>
11	Date of Sample Received	:	05.11.2025&21.11.2025
12	Date of Sample Analysis	:	06.11.2025&22.11.2025
13	Date Sample Analysis Completion	:	07.11.2025&22.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003233F</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	
				05.11.2025	21.11.2025	
	Date of Monitoring			6370	6897	
	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	123	128	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.47	6.11	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	164654	155448	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	123874	115459	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	31.11	31.62	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	532	519	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	39	34	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.115	0.106	1%

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

**Note:**

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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>NOVEMBER -2025</b>
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date Sample Analysis Completion	:	-
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	-

**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	
				Date of Monitoring	Sample Code	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	Shutdown	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C			-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec			-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr			-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr			-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>			50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (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	%			1%

**Note:** NS- Not Specified. RA: Reaffirmed. **INFERENCE:****\*\*End of the Report\*\***

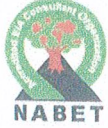
*K. Ramakrishna Reddy*  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager

**Note:**

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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/ <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>2X70 MW CFBC Boiler ESP</b>
10	Month of Sampling	:	<b>NOVEMBER -2025</b>
11	Date of Sample Received	:	07.11.2025&22.11.2025
12	Date of Sample Analysis	:	08.11.2025&24.11.2025
13	Date Sample Analysis Completion	:	08.11.2025&24.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003268F</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	
				07.11.2025	22.11.2025	
	Date of Monitoring					
	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	118	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.88	6.30	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	1063569	1140223	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	814658	868333	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	29.37	30.12	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	34	31	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	226	206	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.021	0.026	NS

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

**Note:**

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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.450003634 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>SMS</b>
10	Month of Sampling	:	<b>NOVEMBER -2025</b>
11	Date of Sample Received	:	10.11.2025&25.11.2025
12	Date of Sample Analysis	:	11.11.2025&26.11.2025
13	Date Sample Analysis Completion	:	12.11.2025&27.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003327F</b>

**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	
				10.11.2025	25.11.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	69	66	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.09	5.11	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	82855	83267	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	72176	73033	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	25.55	17.44	50

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

Global Environment & Mining Services  
HOSPET

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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>NOVEMBER -2025</b>
11	Date of Sample Received	:	11.11.2025&26.11.2025
12	Date of Sample Analysis	:	12.11.2025&27.11.2025
13	Date Sample Analysis Completion	:	13.11.2025&28.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003344F</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	
				11.11.2025	26.11.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	112	115	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.51	6.14	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	165589	156377	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	128120	119993	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	15.21	15.52	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	275	269	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	19	22	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.392	0.451	NS

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

*Samreen P*  
Analysed By

Samreen P  
Chemist

*K. Ramakrishna Reddy*  
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/ <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>Blast Furnance -Stove Waste Gas</b>
10	Month of Sampling	:	<b>NOVEMBER -2025</b>
11	Date of Sample Received	:	13.11.2025&27.11.2025
12	Date of Sample Analysis	:	14.11.2025&28.11.2025
13	Date Sample Analysis Completion	:	15.11.2025&28.11.2025
14	Report Issued Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>ULR-TC1618025000003368F</b>

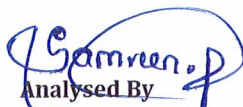
**Stack Details**

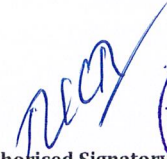
1	Fuel Used	-
2	Stack Height (mtr)	80
3	Stack Diameter (mtr)	2.4

**Emission Details**

Sl. No	Parameters	Method	Unit	Result		Permissible Limit
				1 <sup>st</sup> Fort Night	2 <sup>nd</sup> Fort Night	
				13.11.2025	27.11.2025	
	Date of Monitoring			6676	7090	
	Sample Code			6676	7090	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	133	136	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.84	5.88	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m <sup>3</sup> /hr	95117	95777	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm <sup>3</sup> /hr	69567	69775	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm <sup>3</sup>	18.67	10.84	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm <sup>3</sup>	68	64	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm <sup>3</sup>	8	09	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.407	0.396	<1%

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

  
Analysed By  
Samreen P  
Chemist

  
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/ <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>NOVEMBER -2025(1<sup>st</sup> Fort Night)</b>                       |
| 10 | Date of Sample Received         | : | 11.11.2025   |
| 11 | Date of Sample Analysis         | : | 12.11.2025   |
| 12 | Date Sample Analysis Completion | : | 12.11.2025   |
| 13 | Report Issued Date              | : | <b>02.12.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000003345F</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	-	-	---	-	-	-	30	1.20	-	<b>50</b>
2	Iron Ore Screening	<b>11.11.2025</b>	<b>6605</b>	---	29	34	4.72	30	0.90	15.76	<b>50</b>

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	10809	10448	-

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\*\***

Analysed By  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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# GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)  
 3<sup>rd</sup> Main Road, Basaveswara Badavane,  
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TC-16180

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

## Analysis Report of Stack Emission

- |    |                                 |   |  |
|----|---------------------------------|---|--|
| 1  | Name of the Industry            | : | BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.        |
| 2  | Customer Reference              | : | WORKORDER NO.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>NOVEMBER -2025(1<sup>st</sup> Fort Night)</b>                       |
| 10 | Date of Sample Received         | : | 03.11.2025   |
| 11 | Date of Sample Analysis         | : | 04.11.2025   |
| 12 | Date Sample Analysis Completion | : | 04.11.2025   |
| 13 | Report Issued Date              | : | <b>02.12.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000003185F</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	03.11.2025	6287	---	27	34	4.68	6.5	0.5	22.92	50
4	Lime & Bentonite Powder bin top bag filter	03.11.2025	6288	---	28	33	4.40	6.5	0.5	19.72	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	03.11.2025	6289	---	28	36	4.89	20	0.5	26.65	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	3309	3206	-
4	Lime & Bentonite Powder bin top bag filter	3110	3015	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3455	3315	-

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\*\***

*Samreen P*  
 Analysed By  
 Samreen P  
 Chemist

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

**Note:**

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GEMS



NABET

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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/ <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	Month of Sampling	:	<b>NOVEMBER -2025(1<sup>st</sup> Fort Night)</b>
10	Date of Sample Received	:	04.11.2025,05.11.2025 &06.11.2025
11	Date of Sample Analysis	:	05.11.2025,06.11.2025&07.11.2025
12	Date Sample Analysis Completion	:	05.11.2025,06.11.2025&07.11.2025
13	Report Issued Date	:	<b>02.12.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003211F</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	04.11.2025	6328	---	29	33	4.49	30	1.20	22.10	50
10	Cooler Discharge -2	-	-	---	-	-	-	30	1.20	-	50
11	Coal stock house	04.11.2025	6329	---	30	34	4.39	30	1.20	11.63	50
12	PSB 1 System-1	04.11.2025	6330	---	31	36	4.81	30	1.20	28.90	50
13	PSB 1 System-2	05.11.2025	6371	---	28	33	4.80	30	1.20	26.96	50
14	PSB 2 System-1 MCC	05.11.2025	6373	---	29	34	5.00	30	1.20	28.66	50
15	PSB 1 System-2 Road	05.11.2025	6372	---	30	35	4.96	30	1.20	25.91	50
16	Junction House Old & New	06.11.2025	6426	---	28	35	4.99	30	1.20	29.09	50
17	Storage Bunker	06.11.2025	6427	---	29	34	4.80	30	1.20	24.75	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	18299	17793	-
10	Cooler Discharge -2	-	-	-
11	Coal stock house	17884	17276	-
12	PSB 1 System-1	19575	18774	-
13	PSB 1 System-2	19541	19015	-
14	PSB 2 System-1 MCC	20358	19691	-
15	PSB 1 System-2 Road	20187	19449	-
16	Junction House Old & New	20313	19633	-
17	Storage Bunker	19544	18909	-
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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

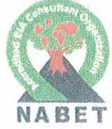
*K. Ramakrishna Reddy*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

**Note:**

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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**  
 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 : **NOVEMBER -2025(1st Fort Night)**  
 10 Date of Sample Received : 06.11.2025,07.11.2025&08.11.2025  
 11 Date of Sample Analysis : 07.11.2025,08.11.2025&10.11.2025  
 12 Date Sample Analysis Completion : 07.11.2025,08.11.2025&10.11.2025  
 13 Report Issued Date : **02.12.2025**  
 14 Report Number : **ULR-TC1618025000003266F**

**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	06.11.2025	6428	---	28	33	4.73	30	1.20	28.24	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	07.11.2025	6452	---	29	35	4.66	30	1.20	34.27	50
21	DE 8 & 12 I-Bin, (Stand By)	07.11.2025	6453	---	28	34	4.90	30	1.90	31.67	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	07.11.2025	6455	---	27	36	5.03	30	1.90	26.51	50
23	Coal Dryer	08.11.2025	6521	---	29	38	4.62	30	1.20	35.60	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	19278	18703	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	18994	18360	-
21	DE 8 & 12 I-Bin, (Stand By)	50071	48488	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	51318	49348	-
23	Coal Dryer	18798	17991	-

**INFERENCE:** The Measured Values are within the limits.**\*\*End of the Report\*\***

*Samreen P*  
 Analysed By  
 Samreen P  
 Chemist

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

**Note:**

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Website : www.gemslp.in



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>NOVEMBER -2025(2<sup>nd</sup>Fort Night)</b>                        |
| 10 | Date of Sample Received         | : | 24.11.2025   |
| 11 | Date of Sample Analysis         | : | 25.11.2025   |
| 12 | Date Sample Analysis Completion | : | 25.11.2025   |
| 13 | Report Issued Date              | : | <b>02.12.2025</b>  |
| 14 | Report Number                   | : | <b>ULR-TC1618025000003421F</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	24.11.2025	6986	---	27	33	4.61	30	0.90	13.99	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	10554	10263	-

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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

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TC-16180

ANNEXURE-40  
GEMS-LD/TF/10/01

## Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.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 : **NOVEMBER -2025 (2<sup>nd</sup> Fort Night)**
- 10 Date of Sample Received : 17.11.2025
- 11 Date of Sample Analysis : 18.11.2025
- 12 Date Sample Analysis Completion : 18.11.2025
- 13 Report Issued Date : **02.12.2025**
- 14 Report Number : **ULR-TC1618025000003384F**

### RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height t (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	17.11.2025	6750	---	27	33	4.80	6.5	0.50	20.37	50
4	Lime & Bentonite Powder bin top bag filter	17.11.2025	6751	---	28	34	4.48	6.5	0.50	18.25	50
5	AGB De dusting Bag Filter	-	-	---	-	-	-	6.0	0.60	-	50
6	Powder Coal main bag filter	-	-	---	-	-	-	6.0	0.60	-	50
7	RP-6 Conveyor bag Filter	-	-	---	-	-	-	6.0	0.30	-	50
8	Pellet discharge bin bag filter	17.11.2025	6752	---	27	36	4.78	2.0	0.50	28.57	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	3377	3243	-

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\*\*

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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



#### Note:

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Website : www.gemslip.in



TC-16180

**ANNEXURE-41**  
**GEMS-LD/TF/10/01**

## Analysis Report of Stack Emission

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.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 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	:	<b>NOVEMBER -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>02.12.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003395F</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	20.11.2025	6859	Coal	28	33	4.43	30	1.2	19.90	50
10	Cooler Discharge -2	-	-	Coal	-	-	-	30	1.2	-	50
11	Coal stock house	20.11.2025	6860	Coal	27	32	4.47	30	1.2	12.93	50
12	PSB 1 System-1	24.11.2025	6987	Coal	28	34	4.88	30	1.2	26.84	50
13	PSB 1 System-2	24.11.2025	6988	Coal	29	35	4.70	30	1.2	30.53	50
14	PSB 2 System-1 MCC	25.11.2025	7025	Coal	28	35	4.72	30	1.2	31.99	50
15	PSB 1 System-2 Road	25.11.2025	7026	Coal	29	36	4.81	30	1.2	27.17	50
16	Junction House Old & New	26.11.2025	7074	Coal	26	34	4.63	30	1.2	28.40	50
17	Storage Bunker	26.11.2025	7075	Coal	29	33	4.51	30	1.2	20.35	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	18034	17475	-
10	Cooler Discharge -2	-	-	-
11	Coal stock house	18212	17768	-
12	PSB 1 System-1	19885	19210	-
13	PSB 1 System-2	19148	18427	-
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\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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



**Note:**

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

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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 : **NOVEMBER -2025(2<sup>nd</sup> Fort Night)**
- 10 Date of Sample Received : 26.11.2025;27.11.2025&28.11.2025
- 11 Date of Sample Analysis : 27.11.2025,28.11.2025&29.11.2025
- 12 Date Sample Analysis Completion : 27.11.2025,28.11.2025&29.11.2025
- 13 Report Issued Date : **02.12.2025**
- 14 Report Number : **ULR-TC1618025000003419F**

### 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	26.11.2025	7067	---	30	35	4.84	30	1.20	26.29	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	27.11.2025	7088	---	27	35	4.56	30	1.20	32.59	50
21	DE 8 & 12 I-Bin, (Stand By)	27.11.2025	7089	---	28	36	4.82	30	1.90	37.02	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	28.11.2025	7111	---	25	33	4.90	30	1.90	29.28	50
23	Coal Dryer	28.11.2025	7112	---	26	37	4.52	30	1.20	33.32	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.

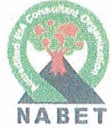
*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

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

**Note:**

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Website : www.gemslp.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 : **NOVEMBER-2025**  
 Report Issue Date : **02.12.2025**  
 Method Adopted : IS 9989-1981 Reaffirmed 2014  
 Report No : **ULR-TC1618025000003189F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		Standard
			Day Time		
			Min	Max	
1	Main Gate	03.11.2025	46.8	55.2	75
2	BF Blower House Entrance	03.11.2025	64.6	71.4	75
3	Transit House	04.11.2025	49.6	56.1	75
4	BF-7th Gate	04.11.2025	42.6	50.1	75
5	Gunda Road	05.11.2025	51.4	59.8	75
6	Gunda Railway Station	05.11.2025	46.2	58.3	75
7	Bagging Shed	06.11.2025	51.4	58.2	75
8	Railway Siding	06.11.2025	46.2	55.0	75
9	SMS-Vibro Feeders	07.11.2025	66.2	72.4	75
10	Bricks Plant	07.11.2025	47.2	52.4	75
11	Kempuhalla (Wagon Tippler)	08.11.2025	49.8	56.2	75
12	Danapura Bridge	08.11.2025	59.5	64.6	75
13	2nd Gate	10.11.2025	52.4	57.8	75
14	MBM-Scale pit	10.11.2025	66.6	71.6	75
15	Dispatch (Truck Parking Area)	10.11.2025	64.2	70.8	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>
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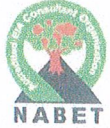
**\*\*End of the Report\*\***

*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 : **NOVEMBER-2025**  
Report Issue Date : **02.12.2025**  
Method Adopted : IS 9989-1981 Reaffirmed 2014  
Report No : **ULR-TC1618025000003382F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	17.11.2025	48.2	55.0	75
2	BF Blower house entrance	17.11.2025	61.2	70.1	75
3	Transit House	18.11.2025	49.8	62.4	75
4	BF-7th gate	18.11.2025	45.9	49.2	75
5	Gunda Road	19.11.2025	54.8	59.0	75
6	Gunda Railway Station	19.11.2025	46.6	50.2	75
7	Bagging Shed	20.11.2025	51.3	58.1	75
8	Railway Siding	20.11.2025	49.2	54.8	75
9	SMS-Vibro feeders	21.11.2025	61.8	69.2	75
10	Bricks Plant	21.11.2025	46.2	51.8	75
11	Kempuhalla (Wagon Tippler)	22.11.2025	51.4	58.2	75
12	Danapura Bridge	22.11.2025	58.2	69.4	75
13	2nd Gate	24.11.2025	53.5	58.3	75
14	MBM Scale pit	24.11.2025	64.8	70.4	75
15	Dispatch (Truck Parking Area)	24.11.2025	66.8	71.4	75

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

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

*[Signature]*  
**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 : NOVEMBER-2025  
 Report Issue Date : 02.12.2025  
 Method Adopted : IS 9989-1981 Reaffirmed 2014  
 Report No : ULR-TC1618025000003188F

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	03.11.2025	48.2	55.6	51.04	55	38.8	45.9	41.12	45
2	Mariyammana Halli	04.11.2025	45.6	57.1	52.38		39.1	47.1	42.06	
3	Hanumana Halli	05.11.2025	45.2	54.3	50.12		38.1	41.3	40.10	
4	Galemmanagudi	06.11.2025	48.8	57.4	53.14		39.2	46.9	43.14	
5	G. Nagalapura Village	07.11.2025	45.6	54.1	50.36		37.6	40.8	38.82	
6	Gunda Tanda Village	08.11.2025	45.3	53.0	50.12		37.1	40.3	38.66	

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\*\*

  
 Authorised Signatory  
 K. Ramakrishna Reddy  
 Technical Manager

### NOISE: (AMBIENT STANDARDS)

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

#### Note:

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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	: <b>6534</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003315F</b>

**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	-	7.32	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1640	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	974	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	32.86	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	124.12	-	-
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	137.87	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	50.86	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	554	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	277.63	250max	1000 max

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TC-16180

**ANNEXURE-46**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.72</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>20.82</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>484.0</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: GW1: Danapur Village. NR-No relaxation.****INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limits.****\*\*End of the Report\*\***

*Samreen P*  
**Analysed By**  
 Samreen P  
 Chemist

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

**Note:**

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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	: <b>6534</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>GEMS/BMMIL/GW/2025-26/3315</b>

### 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

Analysed By  
Samreen P  
Chemist

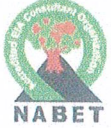
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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

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e-mail : gems\_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-47  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.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>6536</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003317F</b>

**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	-	7.46	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2100	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1340	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	120.04	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	78.38	-	-
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	160.32	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	36.25	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	550.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	602.5	250max	1000 max

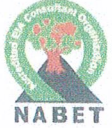
**Note:**

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TC-16180

**ANNEXURE-47**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.56</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>14.22</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>514.8</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>0.14</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

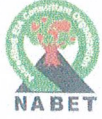
**Note: GW2:** Hanumanahalli Village. **NR**-No relaxation.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.****\*\*End of the Report\*\***

*Samreen.p*  
**Analysed By**  
 Samreen P  
 Chemist

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

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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ANNEXURE-47  
GEMS-LD/TF/23/01

### Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: 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>6536</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15.	Report Number	: <b>GEMS/BMMIL/GW/2025-26/3317</b>

### 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  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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Website : www.gemslp.in



TC-16180

ANNEXURE-48  
GEMS-LD/TF/23/01Z**Analysis Report of Water Quality Data**

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.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>6537</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003318F</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	-	7.24	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2100	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1240	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 SO <sub>4</sub> E: 2023	mg/L	108.44	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	168.26	-	-
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	143.49	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	56.20	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	590.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	371.14	250max	1000 max

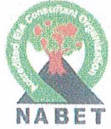
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TC-16180

**ANNEXURE-48**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.54</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>26.18</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>499.4</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

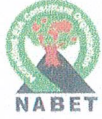
**Note: GW3: Galemmanagudi Village. NR-No relaxation.****INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limits.****\*\*End of the Report\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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


**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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Website : www.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 : 6537
- 10 Date of Sampling : 08.11.2025
- 11 Sample Received : 08.11.2025
- 12 Date of Analysis : 10.11.2025
- 13 Date of Analysis Completion : 17.11.2025
- 14 Report Issue Date : 02.12.2025
15. Report Number : GEMS/BMMIL/GW/2025-26/3318

### 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  
Samreen P  
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	: <b>6535</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003316F</b>

**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	-	<b>7.28</b>	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	<b>2000</b>	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	<b>1200</b>	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<b>0.4</b>	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<b>&lt;1.0</b>	-	-
6.	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E: 2023	mg/L	<b>172.06</b>	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<b>&lt;0.1</b>	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	<b>86.14</b>	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	<b>0.00</b>	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	<b>189.97</b>	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	<b>25.53</b>	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	<b>580.0</b>	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	<b>425.12</b>	250max	1000 max

**Note:**

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TC-16180

## ANNEXURE-49

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.44</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>16.78</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>429.0</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</b> <b>Report Status: - Measured Values for the above parameters are within the limit.</b>
------------------	--

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

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

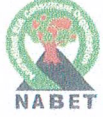


**Note:**

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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6. Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



GEMS



NABET

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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

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ANNEXURE-49  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**


1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: 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>6535</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15.	Report Number	: <b>GEMS/BMMIL/GW/2025-26/3316</b>

**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	<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  
Samreen P  
Chemist



Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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Website : www.gemslp.in



TC-16180

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

## Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.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>6538</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003319F</b>

### Results

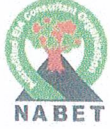
Sl. No.	Parameters	Protocol	Unit	Gunda Thanda (GW5)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.16	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1160	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	740	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	112.14	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	54.14	-	-
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	144.28	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	8.09	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	394.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	139.78	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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*[Handwritten signature]*



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TC-16180

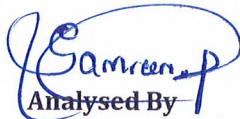
## ANNEXURE-50

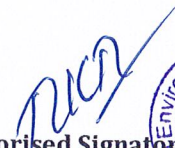
14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.42</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO3 E : 2023	mg/L	<b>12.78</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>336.6</b>	200max	600max
17.	Acidity 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: GW5: Gunda Thanda. 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 limit.</b>
------------------	--

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

  
**Analysed By**  
 Samreen P  
 Chemist

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



### Note:

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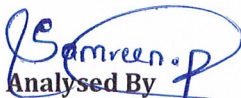
ANNEXURE-50  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**


- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : 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 : **6538**
- 10 Date of Sampling : 08.11.2025
- 11 Sample Received : 08.11.2025
- 12 Date of Analysis : 10.11.2025
- 13 Date of Analysis Completion : 17.11.2025
- 14 Report Issue Date : **02.12.2025**
15. Report Number : **GEMS/BMMIL/GW/2025-26/3319**

**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  
Samreen P  
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	: <b>6539</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003320F</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
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	<b>7.30</b>	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	<b>1140</b>	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	<b>728</b>	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<b>0.2</b>	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<b>&lt;1.0</b>	-	-
6.	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO4 E: 2023	mg/L	<b>56.04</b>	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<b>&lt;0.1</b>	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	<b>46.22</b>	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	<b>0.00</b>	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	<b>127.45</b>	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	<b>6.16</b>	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	<b>344.0</b>	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	<b>241.0</b>	250max	1000 max

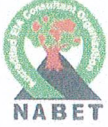
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TC-16180

**ANNEXURE-51**

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	<b>0.36</b>	1 max	1.5 max
15.	Nitrate Nitrogen as NO <sub>3</sub>	APHA 24th Edition 4500 NO <sub>3</sub> E : 2023	mg/L	<b>10.12</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>369.6</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: 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\*\***

*Samreen P*  
**Analysed By**  
 Samreen P  
 Chemist

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

**Note:**

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Website : www.gemslp.in

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

### Analysis Report of Water Quality Data

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.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>6539</b>
10	Date of Sampling	:	08.11.2025
11	Sample Received	:	08.11.2025
12	Date of Analysis	:	10.11.2025
13	Date of Analysis Completion	:	17.11.2025
14	Report Issue Date	:	<b>02.12.2025</b>
15	Report Number	:	<b>GEMS/BMMIL/GW/2025-26/3320</b>

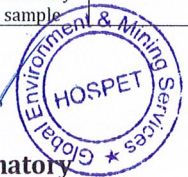
### Results

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  
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Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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Website : www.gemslp.in



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	: <b>6540</b>
10	Date of Sampling	: 08.11.2025
11	Sample Received	: 08.11.2025
12	Date of Analysis	: 10.11.2025
13	Date of Analysis Completion	: 17.11.2025
14	Report Issue Date	: <b>02.12.2025</b>
15	Report Number	: <b>ULR-TC1618025000003321F</b>

### 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	-	<b>6.86</b>	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	<b>240</b>	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	<b>154</b>	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<b>0.1</b>	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<b>&lt;1.0</b>	-	-
6.	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E: 2023	mg/L	<b>16.22</b>	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<b>&lt;0.1</b>	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	<b>18.02</b>	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	<b>0.00</b>	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	<b>28.85</b>	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	<b>1.91</b>	30max	100max
12.	Total Hardness as CaCO <sub>3</sub>	APHA 24th Edition 2340 C : 2023	mg/L	<b>80.0</b>	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	<b>33.74</b>	250max	1000 max

#### Note:

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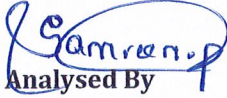


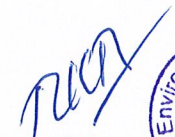
TC-16180

**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>1.12</b>	45max	NR
16.	Total Alkalinity as CaCO <sub>3</sub>	APHA 24th Edition 2320 B : 2023	mg/L	<b>55.0</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.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.****\*\*End of the Report\*\***

  
**Analysed By**  
 Samreen P  
 Chemist

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

**Note:**

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ANNEXURE-52  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.450003634 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 : **6540**
- 10 Date of Sampling : 08.11.2025
- 11 Sample Received : 08.11.2025
- 12 Date of Analysis : 10.11.2025
- 13 Date of Analysis Completion : 17.11.2025
- 14 Report Issue Date : **02.12.2025**
15. Report Number : **GEMS/BMMIL/RO/2025-26/3321**

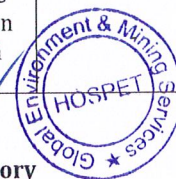
**Results**

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  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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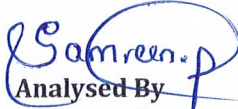
TC-16180

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 : 08.11.2025
- 10 Sample Received : 08.11.2025
- 11 Date of Analysis : 10.11.2025
- 12 Date of Analysis Completion : 15.11.2025
- 13 Report Issue Date : **02.12.2025**
- 14 Report Number : **ULR-TC1618025000003322F**

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>				-	6541	6542	6543	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.04	7.73	7.29	6.5 to 8.5	
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10	6.0	10	<20	
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	2.0	6.0	<10	
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	14.28	18.36	34.68	<50	
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.0	0.0	2.0	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\*\***

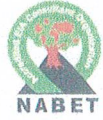
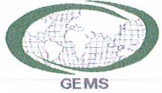
  
Analysed By  
Samreen P  
Chemist

  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



**Note:**

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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	: 08.11.2025
10	Sample Received	: 08.11.2025
11	Date of Analysis	: 10.11.2025
12	Date of Analysis Completion	: 15.11.2025
13	Report Issue Date	: <b>02.12.2025</b>
14.	Report Number	: <b>GEMS/BMMIL/STP/2025-26/3036</b>

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
Sample code			-	6541	6542	6543	
6.	Color	APHA 24th Edition -2120 C:2023	Hazen	5	5	5	-
7.	Odour	IS: 3025 (PART 5)- 1983, RA-2012, True Odour	-	Agree able	Agree able	Agree able	-
8.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D: 2023	mg/L	BDL	BDL	BDL	-
9.	Phenolic Compounds (as C <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	0.28	0.42	2.52	5
12.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	0.84	1.26	3.64	10
13.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/100ml	9	8	21	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

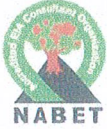
Analysed By  
Samreen P  
Chemist

Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager

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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	:	08.11.2025
10	Sample Received	:	08.11.2025
11	Date of Analysis	:	10.11.2025
12	Date of Analysis Completion	:	17.11.2025
13	Report Issue Date	:	<b>02.12.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003323F</b>

**Results**

Sl. No.	Parameters	Protocol	Unit	Results		As per KSPCB Std
				Neutralization Pit 70 MW Power Plant	Neutralization Pit 2x70 MW Power Plant	
<b>Sample Code</b>				<b>6544</b>	<b>6545</b>	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	<b>7.89</b>	<b>6.60</b>	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<b>24.0</b>	<b>20.0</b>	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	<b>130.56</b>	<b>118.32</b>	250
4.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	<b>4.0</b>	<b>2.0</b>	10

**Note:** BDL-Below detectable Limit.**INFERENCE:** The Measured values are within the Limit.**\*\*End of the Report\*\***

**Analysed By**  
Samreen P  
Chemist

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

**Note:**

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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	:	<b>Surface Water</b>
9	Date of Sampling	:	08.11.2025
10	Sample Received	:	08.11.2025
11	Date of Analysis	:	10.11.2025
12	Date of Analysis Completion	:	17.11.2025
s13	Report Issue Date	:	<b>02.12.2025</b>
14.	Report Number	:	<b>ULR-TC1618025000003324F</b>

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
Sample code				6546	6547	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.60	7.63	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	0.28	0.32	1.3

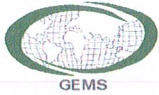
**INFERENCE:** The measured values are within the Limit**\*\*End of the Report\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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


**Note:**

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Website : www.gemslp.in

ANNEXURE-55  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.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	:	08.11.2025
10	Sample Received	:	08.11.2025
11	Date of Analysis	:	10.11.2025
12	Date of Analysis Completion	:	17.11.2025
13	Report Issue Date	:	<b>02.12.2025</b>
14.	Report Number	:	<b>GEMS/SW/2025-26/3324</b>

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
<b>Sample code</b>				<b>6546</b>	<b>6547</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	5.8	5.6	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	15	15	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	70	50	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/100 ml	Absent	Absent	-

**Analysed By**  
Samreen P  
Chemist

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

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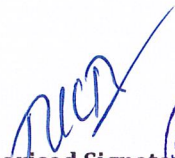
ANNEXURE-56  
GEMS-LD/TF/23/01**Analysis Report of Water Quality Data**

- 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 : 08.11.2025  
 10 Sample Received : 08.11.2025  
 11 Date of Analysis : 10.11.2025  
 12 Date of Analysis Completion : 17.11.2025  
 13 Report Issue Date : **02.12.2025**  
 14. Report Number : **ULR-TC1618025000003325F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
Sample code				6548	6549	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.11	7.87	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	0.56	0.48	1.5

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

  
 Analysed By  
 Samreen P  
 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
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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

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Website : www.gemslp.in

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

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.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	:	08.11.2025
10	Sample Received	:	08.11.2025
11	Date of Analysis	:	10.11.2025
12	Date of Analysis Completion	:	17.11.2025
13	Report Issue Date	:	<b>02.12.2025</b>
14.	Report Number	:	<b>GEMS/SW/2025-26/3325</b>

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
<b>Sample code</b>				<b>6548</b>	<b>6549</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	5.0	5.4	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	25	25	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	33	26	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-

*Samreen P*  
Analysed By  
Samreen P  
Chemist

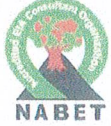
*K. Ramakrishna Reddy*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



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Ph : 08394 355369

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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	:	08.11.2025
10	Sample Received	:	08.11.2025
11	Date of Analysis	:	10.11.2025
12	Date of Analysis Completion	:	17.11.2025
13	Report Issue Date	:	<b>02.12.2025</b>
14	Report Number	:	<b>ULR-TC1618025000003326F</b>

Sl. No.	Parameters	Protocol	Unit	Results	
				Tungabhadra dam	IS 2296 -1982 CLASS -B
<b>Sample Code</b>				<b>6550</b>	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	6.80	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	0.32	1.5
4.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	206	-
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	32	-

**Note:** BDL-Below detectable Limit**INFERENCE:** The measured values are within the Limit.**\*\*End of the Report\*\***

*Samreen P*  
Analysed By  
Samreen P  
Chemist

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

Global Environment & Mining Services  
HOSPET

**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

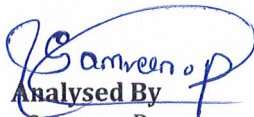
### Analysis Report of Water Quality Data

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	: 08.11.2025
10	Sample Received	: 08.11.2025
11	Date of Analysis	: 10.11.2025
12	Date of Analysis Completion	: 17.11.2025
13	Report Issue Date	: <b>02.12.2025</b>
14.	Report Number	: <b>GEMS/SW/2025-26/3326</b>

Sl. No.	Parameters	Protocol	Unit	Results	
				Tungabhadra dam	IS 2296 -1982 CLASS -B
<b>Sample Code</b>				<b>5891</b>	
6.	Color	APHA 24th Editon -2120 C:2023	Hazen	10	300
7.	Arsenic as As	APHA 24thEdition3114- B : 2023	mg/L	<0.01	0.2
8.	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	5.2	>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 Editon 3500 Cr-B:2023	mg/L	BDL	1.0
12.	<b>Total Coliform Organisms,</b>				
	Total Coli forms	IS :1622:1981	MPN/100 ml	80	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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