



BMM Ispat Ltd.,

ENVIRONMENTAL MONITORING REPORT



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

SEPTEMBER-2025

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES LLP

NABL & MOEFCC Recognized Laboratory

(Consulting Engineers, Mine Designers, Geologists & Surveyors)

3rd main road, Basaveswara badavane

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

PREFACE

The industries should monitor environmental parameters as per the frequency and locations given in the CFE/CFO. And the same should be submitted on every month to the respective pollution control board.

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

Accordingly, M/s. Global Environment & Mining Services LLP, Hosapete, carried out the pollution monitoring as per the standard sampling methods prescribed by CPCB, for AAQ Monitoring, Fugitive monitoring within the plant, Stack Monitoring & Personal Dust Sampling as per the CFO. These monitoring has been carried out in a frequency as mentioned in the CFO and the same report is being submitted to the Board.

We sincerely thank to officials of **M/s. BMM Ispat Ltd.**, for their valuable co-ordination & support during the sampling and reporting.

for GLOBAL Environment & Mining Services LLP

Place: Hosapete
Date:03.10.2025


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 **SEPTEMBER-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 42.66, 9.08, 8.94 & 10.24 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 40.86, 9.66, 9.65 & 11.86 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 43.06, 9.88, 8.50 & 10.57 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 45.07, 9.72, 10.10 & 12.61 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 39.61, 9.17, 8.14 & 10.11 $\mu\text{g}/\text{m}^3$ 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 37.71, 8.41, 7.60 & 8.58 $\mu\text{g}/\text{m}^3$ 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 103.82 $\mu\text{g}/\text{m}^3$, maximum value 1959.14 $\mu\text{g}/\text{m}^3$ and average value 772.57 $\mu\text{g}/\text{m}^3$. The Fugitive air quality 1st & 2nd Fortnight Results given in **Annexure-7 to Annexure-12**.

5.2 STACK MONITORING

Stack emission level was monitored all chimneys' PM values (mg/Nm^3) 1st and 2nd Fortnight Minimum Value 4.38 mg/Nm^3 , Maximum Value 40.93 mg/Nm^3 & Average Value 25.01 mg/Nm^3 . 1st & 2nd Fortnight Results are given in **Annexure-13 to Annexure-42**.

5.3 NOISE LEVEL MEASUREMENT

Noise level was recorded at 30 locations each in Ambient and work zone area using Sound Level Meter (Lutron) The Day time noise level values were ranging between 42.2 to 74.2 dB (A). The noise level status is given in **Annexure-43 to Annexure-44**.

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

5.5 CONCLUSION

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



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TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : **SEPTEMBER-2025**
Location : **A1-Danapur Village**
Duration of Monitoring : 24 Hour
Report Issued Date : **03.10.2025**
Report Number : **ULR-TC1618025000002348F**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS:5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4561	49.28	100	10.38	60	7.72	80	8.33	80
05.09.2025	06.09.2025	4634	53.44		13.41		8.70		9.34	
08.09.2025	09.09.2025	4721	47.13		14.02		7.72		9.06	
09.09.2025	10.09.2025	4778	56.23		8.51		9.13		12.02	
15.09.2025	16.09.2025	4994	42.59		6.85		9.78		11.21	
16.09.2025	17.09.2025	5008	34.82		9.36		11.48		12.19	
22.09.2025	23.09.2025	5233	31.32		5.53		9.52		11.45	
23.09.2025	24.09.2025	5275	26.47		4.58		7.47		8.35	
Average			42.66		9.08		8.94		10.24	

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****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples,Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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ANNEXURE-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 : SEPTEMBER-2025
 Location : A1-Danapur Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.10.2025
 Report Number : GEMS/BMMIL/NAAQ/2025-26/2348

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4561	<0.01	4.0
2	05.09.2025	4634	<0.01	
3	08.09.2025	4721	<0.01	
4	09.09.2025	4778	<0.01	
5	15.09.2025	4994	<0.01	
6	16.09.2025	5008	<0.01	
7	22.09.2025	5233	<0.01	
8	23.09.2025	5275	<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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B. B.
 Analysed By
 Brunda B
 Chemist

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

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

AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

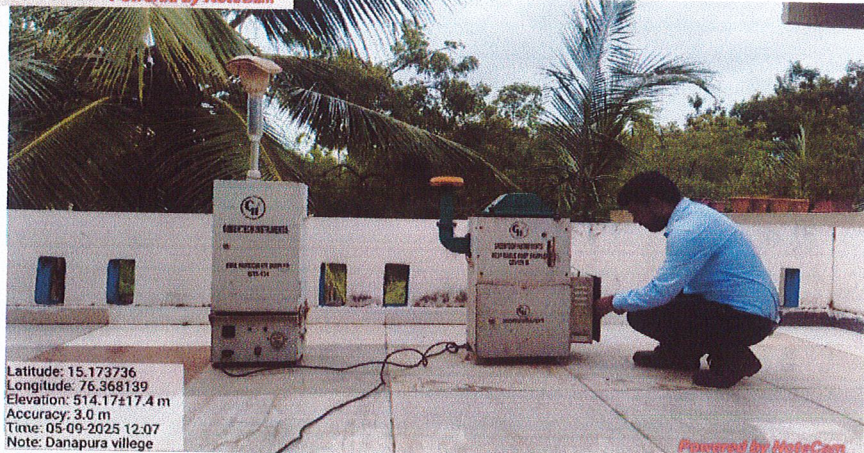
Address:T Kotresh S/o T Thyappa Vyasankere colony Danapur

Near VRM Hospital



Latitude: 15.173725
Longitude: 76.368154
Elevation: 508.97±19.9 m
Accuracy: 2.0 m
Time: 04-09-2025 14:14
Note: Danapura village

Powered by NoteCam



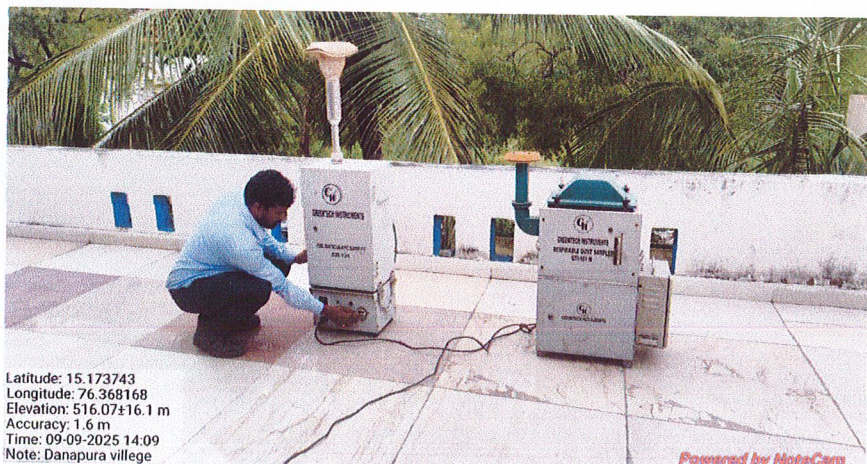
Latitude: 15.173736
Longitude: 76.368139
Elevation: 514.17±17.4 m
Accuracy: 3.0 m
Time: 05-09-2025 12:07
Note: Danapura village

Powered by NoteCam



Latitude: 15.173733
Longitude: 76.368162
Elevation: 511.67±13.8 m
Accuracy: 1.8 m
Time: 08-09-2025 11:21
Note: Danapura village

Powered by NoteCam



Latitude: 15.173743
Longitude: 76.368168
Elevation: 516.07±16.1 m
Accuracy: 1.6 m
Time: 09-09-2025 14:09
Note: Danapura village

Powered by NoteCam

AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

Near VRM Hospital





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TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.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 : SEPTEMBER-2025
Location : A2-Mariyammanahalli Village
Duration of Monitoring : 24 Hour
Report Issued Date : 03.10.2025
Report Number : ULR-TC1618025000002350F

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4563	42.05	100	10.27	60	10.50	80	12.99	80
05.09.2025	06.09.2025	4636	49.70		13.41		8.54		11.87	
08.09.2025	09.09.2025	4723	48.47		9.89		8.70		12.39	
09.09.2025	10.09.2025	4780	50.06		12.23		12.50		13.40	
15.09.2025	16.09.2025	4996	40.52		7.65		7.86		8.56	
16.09.2025	17.09.2025	5010	32.11		9.53		7.73		11.54	
22.09.2025	23.09.2025	5235	34.69		8.12		11.95		12.71	
23.09.2025	24.09.2025	5277	29.26		6.15		9.43		11.44	
Average			40.86		9.66		9.65		11.86	

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

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

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

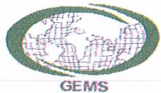
Brunda B
Analysed By
Brunda B
Chemist

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



Note:

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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 : SEPTEMBER-2025
 Location : A2-Mariyammanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.10.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/2350

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4563	<0.01	4.0
2	05.09.2025	4636	<0.01	
3	08.09.2025	4723	<0.01	
4	09.09.2025	4780	<0.01	
5	15.09.2025	4996	<0.01	
6	16.09.2025	5010	0.10	
7	22.09.2025	5235	0.12	
8	23.09.2025	5277	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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B. B.
 Analysed By
 Brunda B
 Chemist

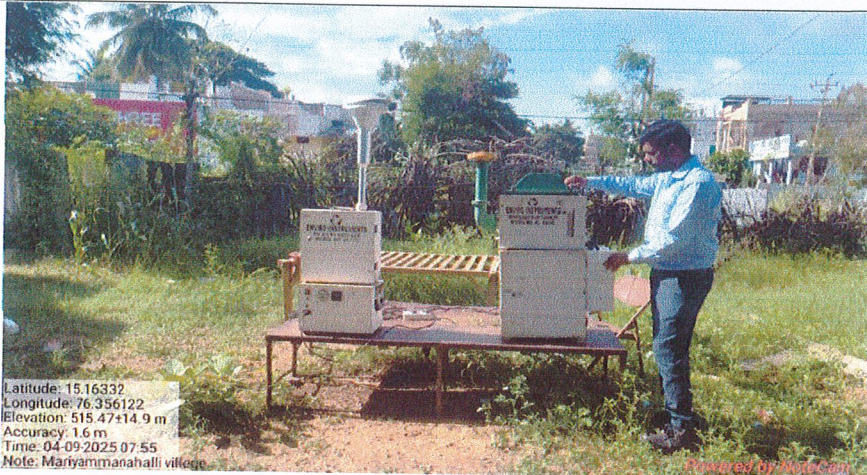
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 K. Ramakrishna Reddy
 Technical Manager

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

AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

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



AMBIENT AIR QUALITY MONITORING STATION

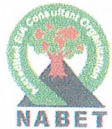
Location : Mariyammana Halli

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





GEMS



NABET

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TC-16180

ANNEXURE-03
GEMS-LD/TF/11/01**ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA**

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.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 : **SEPTEMBER-2025**
 Location : **A3-Hanumanahalli Village**
 Duration of Monitoring : 24 Hour
 Report Issued Date : **03.10.2025**
 Report Number : **ULR-TC1618025000002349F**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4562	45.29	100	9.57	60	10.35	80	11.53	80
05.09.2025	06.09.2025	4635	53.66		13.11		8.96		12.89	
08.09.2025	09.09.2025	4722	50.46		11.53		7.46		9.49	
09.09.2025	10.09.2025	4779	56.00		10.69		8.74		9.64	
15.09.2025	16.09.2025	4995	42.80		12.67		7.86		11.78	
16.09.2025	17.09.2025	5009	38.34		8.77		8.02		9.72	
22.09.2025	23.09.2025	5234	31.28		6.65		8.84		10.61	
23.09.2025	24.09.2025	5276	26.61		6.04		7.72		8.87	
Average			43.06		9.88		8.50		10.57	

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.
-----------	--

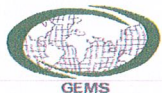
****End of the Report****

Analyzed By
 Brunda.B
 Chemist

Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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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 : SEPTEMBER-2025
 Location : A3-Hanumanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.10.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/2349

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4562	<0.01	4.0
2	05.09.2025	4635	<0.01	
3	08.09.2025	4722	<0.01	
4	09.09.2025	4779	<0.01	
5	15.09.2025	4995	<0.01	
6	16.09.2025	5009	<0.01	
7	22.09.2025	5234	<0.01	
8	23.09.2025	5276	<0.01	

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

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	12.07.2025
5	Calibration Due Date	11.07.2026

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

B. B.
 Analysed By
 Brunda B
 Chemist

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

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

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



Latitude: 15.183462
Longitude: 76.376047
Elevation: 492.96±16.7 m
Accuracy: 23.71 m
Time: 04-09-2025 15:04
Note: hanumanahalli village



Latitude: 15.183455
Longitude: 76.376023
Elevation: 505.46±16.7 m
Accuracy: 1.3 m
Time: 05-09-2025 14:02
Note: hanumanahalli village

Powered by NoteCar



Latitude: 15.18345
Longitude: 76.376037
Elevation: 508.06±19.5 m
Accuracy: 99.32 m
Time: 08-09-2025 14:53
Note: hanumanahalli village

Powered by NoteCar



Latitude: 15.183457
Longitude: 76.376023
Elevation: 506.36±19.5 m
Accuracy: 4.418 m
Time: 09-09-2025 13:49
Note: hanumanahalli village

Powered by NoteCar

AMBIENT AIR QUALITY MONITORING STATION

Location: Hanumanahalli

Address: BMM OHC Hospital Hanumanahalli Near STP



Latitude: 15.18347
Longitude: 76.376016
Elevation: 508.56±16.7 m
Accuracy: 3.487 m
Time: 15-09-2025 15:07
Note: hanumanahalli village



Latitude: 15.183457
Longitude: 76.376021
Elevation: 504.46±16.9 m
Accuracy: 4.647 m
Time: 16-09-2025 15:01
Note: hanumanahalli village



Latitude: 15.183474
Longitude: 76.376026
Elevation: 504.56±20.1 m
Accuracy: 3.944 m
Time: 22-09-2025 15:22
Note: hanumanahalli village



Latitude: 15.183487
Longitude: 76.376018
Elevation: 506.36±19.8 m
Accuracy: 4.547 m
Time: 23-09-2025 15:19
Note: hanumanahalli village



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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 : SEPTEMBER-2025
Location : A4-Galemmanagudi Village
Duration of Monitoring : 24 Hour
Report Issue Date : 03.10.2025
Report Number : ULR-TC1618025000002351F

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS:5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Sample Received	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4564	46.58	100	10.07	60	9.08	80	12.17	80
05.09.2025	06.09.2025	4637	53.43		11.82		12.31		14.42	
08.09.2025	09.09.2025	4724	50.62		9.14		9.84		11.18	
09.09.2025	10.09.2025	4781	58.46		10.84		10.37		11.06	
15.09.2025	16.09.2025	4997	43.26		9.17		11.57		13.02	
16.09.2025	17.09.2025	5011	47.50		10.69		9.22		12.52	
22.09.2025	23.09.2025	5236	34.17		8.27		8.83		11.21	
23.09.2025	24.09.2025	5278	26.55		7.76		9.60		15.32	
Average			45.07		9.72		10.10		12.61	

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****

B-2.B
Analysed By
Brunda.B
Chemist

RUCR
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : 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 : **SEPTEMBER-2025**
 Location : **A4-Galemmanagudi Village**
 Duration of Monitoring : 1 Hour
 Report Issued Date : **03.10.2025**
 Report Number : **GEMS/BMM/NAAQ/2025-26/2351**

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4564	0.16	4.0
2	05.09.2025	4637	0.14	
3	08.09.2025	4724	0.10	
4	09.09.2025	4781	0.12	
5	15.09.2025	4997	<0.01	
6	16.09.2025	5011	<0.01	
7	22.09.2025	5236	<0.01	
8	23.09.2025	5278	<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
-----------	---

BL
 Analysed By
 Brunda B
 Chemist

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



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AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

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

Tq: Hospet Di: Vijayanagara



Latitude: 15.19224
Longitude: 76.37682
Elevation: 508.25±18.6 m
Accuracy: 100.1 m
Time: 04-09-2025 16:49
Note: Galemmanagudi village



Latitude: 15.192233
Longitude: 76.376838
Elevation: 509.15±19.4 m
Accuracy: 102.1 m
Time: 05-09-2025 16:42
Note: Galemmanagudi village

Powered by NoteCam



Latitude: 15.19223
Longitude: 76.376855
Elevation: 511.85±21.3 m
Accuracy: 1.5 m
Time: 08-09-2025 16:21
Note: Galemmanagudi village

Powered by NoteCam



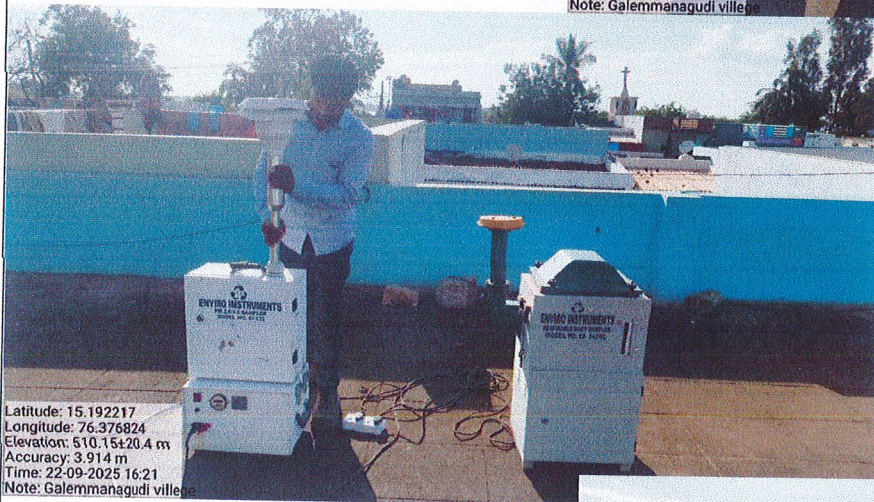
Latitude: 15.192222
Longitude: 76.376844
Elevation: 511.25±21.2 m
Accuracy: 2.418 m
Time: 09-09-2025 16:13
Note: Galemmanagudi village

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





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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	: SEPTEMBER-2025
Location	: A5-G Nagalapura Village
Duration of Monitoring	: 24 Hour
Report Issue Date	: 03.10.2025
Report Number	: ULR-TC1618025000002352F

RESULTS

Parameters			PM10 [µg/m ³]		PM2.5 [µg/m ³]		SO2 [µg/m ³]		NO2 [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS :5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Received Sample	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4565	37.28	100	9.79	60	8.36	80	10.63	80
05.09.2025	06.09.2025	4638	47.34		9.23		8.03		8.25	
08.09.2025	09.09.2025	4725	40.54		12.61		8.70		10.84	
09.09.2025	10.09.2025	4782	55.38		10.86		8.45		12.96	
15.09.2025	16.09.2025	4998	47.14		10.39		6.05		8.44	
16.09.2025	17.09.2025	5012	38.05		8.16		7.65		8.53	
22.09.2025	23.09.2025	5237	28.90		7.18		9.60		11.57	
23.09.2025	24.09.2025	5279	22.24		5.17		8.25		9.68	
Average			39.61		9.17		8.14		10.11	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133 MINI
3	Serial No	R.D.S. / 198-C-21	PM2.5 / PM10 Sampler / 527-F-2024
4	Calibration Date	24.07.2025	23.09.2024
5	Calibration Due Date	23.07.2026	22.09.2025

INFERENCE

As per NAAQMS Standards (2009),

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

****End of the Report****
Analysed ByBrunda.B
Chemist
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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	: SEPTEMBER-2025
Location	: A5- G Nagalapura Village
Duration of Monitoring	: 1 Hour
Report Issued Date	: 03.10.2025
Report Number	: GEMS/BMMIL/ NAAQ /2025-26/2352

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4565	<0.01	4.0
2	05.09.2025	4638	<0.01	
3	08.09.2025	4725	<0.01	
4	09.09.2025	4782	<0.01	
5	15.09.2025	4998	<0.01	
6	16.09.2025	5012	<0.01	
7	22.09.2025	5237	<0.01	
8	23.09.2025	5279	<0.01	

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

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	12.07.2025
5	Calibration Due Date	11.07.2026

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

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

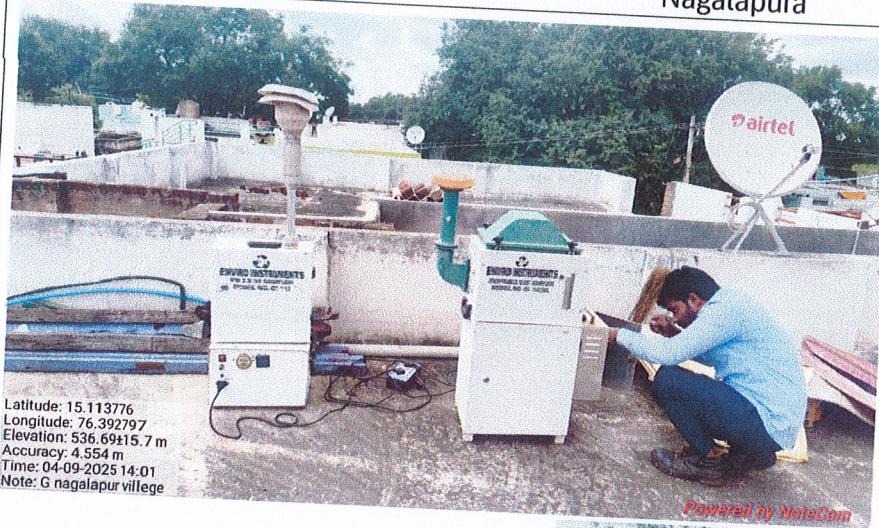


- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

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



Latitude: 15.113776
Longitude: 76.392797
Elevation: 536.69±15.7 m
Accuracy: 4.554 m
Time: 04-09-2025 14:01
Note: G nagalapur village

Powered by NoteCam



Latitude: 15.113782
Longitude: 76.39282
Elevation: 533.89±18.9 m
Accuracy: 3.579 m
Time: 05-09-2025 14:49
Note: G nagalapur village

Powered by NoteCam



Latitude: 15.113798
Longitude: 76.392833
Elevation: 538.59±19.2 m
Accuracy: 2.2 m
Time: 08-09-2025 12:10
Note: G nagalapur village



Latitude: 15.113748
Longitude: 76.392799
Elevation: 540.99±15.4 m
Accuracy: 3.981 m
Time: 09-09-2025 13:25
Note: G nagalapur village

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: 15.113778
Longitude: 76.392826
Elevation: 538.79±15.2 m
Accuracy: 1.2 m
Time: 15-09-2025 14:16
Note: G nagalapur villeg

Powered by NoteCam



Latitude: 15.11378
Longitude: 76.392809
Elevation: 536.59±18.0 m
Accuracy: 3.545 m
Time: 16-09-2025 14:08
Note: G nagalapur villeg

Powered by NoteCam



Latitude: 15.113771
Longitude: 76.392814
Elevation: 534.89±14.7 m
Accuracy: 3.542 m
Time: 22-09-2025 13:57
Note: G nagalapur villeg



Latitude: 15.113774
Longitude: 76.392812
Elevation: 537.09±14.9 m
Accuracy: 3.713 m
Time: 23-09-2025 13:49
Note: G nagalapur villeg

Powered by NoteCam



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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 : **SEPTEMBER-2025**
 Location : **A6-Gunda Tanda Village**
 Duration of Monitoring : 24 Hour
 Report Issue Date : **03.10.2025**
 Report Number : **ULR-TC1618025000002353F**

RESULTS

Parameters			PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)		IS 5182 (Part 24): 2019 (RF-2024)		IS:5182: 2001 (Part-2) Sec 1:2023		IS:5182: (Part-6) 2006 (RF-2017)	
Date of Sampling	Date of Received Sample	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.09.2025	05.09.2025	4566	39.41	100	8.42	60	7.86	80	8.07	80
05.09.2025	06.09.2025	4639	49.34		8.88		7.35		9.42	
08.09.2025	09.09.2025	4726	46.15		9.20		6.59		6.93	
09.09.2025	10.09.2025	4783	32.14		5.77		7.80		8.49	
15.09.2025	16.09.2025	4999	34.68		9.54		8.05		9.53	
16.09.2025	17.09.2025	5013	41.86		9.95		7.14		7.88	
22.09.2025	23.09.2025	5238	32.74		8.73		7.46		8.65	
23.09.2025	24.09.2025	5280	25.34		6.82		8.56		9.70	
Average			37.71		8.41		7.60		8.58	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133
3	Serial No	R.D.S./200-C-21	PM2.5 /PM10 Sampler / 158-K-20
4	Calibration Date	24.07.2025	25.04.2025
5	Calibration Due Date	23.07.2026	24.04.2026

INFERENCE

As per NAAQMS Standards (2009),

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

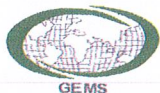
****End of the Report****

Analysed By
Brunda.B
 Chemist

Authorised Signatory
K. Ramakrishna Reddy
 Technical Manager

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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ANNEXURE-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 : SEPTEMBER-2025
 Location : A6-Gunda Tanda Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 03.10.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/2353

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	04.09.2025	4566	<0.01	4.0
2	05.09.2025	4639	<0.01	
3	08.09.2025	4726	<0.01	
4	09.09.2025	4783	<0.01	
5	15.09.2025	4999	<0.01	
6	16.09.2025	5013	<0.01	
7	22.09.2025	5238	<0.01	
8	23.09.2025	5280	<0.01	

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

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	12.07.2025
5	Calibration Due Date	11.07.2026

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

B-25
 Analysed By
 Brunda B
 Chemist

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

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AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's

Gunda Thanda



Latitude: 15.153156
Longitude: 76.38705
Elevation: 524.48±18.5 m
Accuracy: 3.856 m
Time: 04-09-2025 12:59
Note: Gunda thanda village



Latitude: 15.153107
Longitude: 76.387077
Elevation: 531.72±22.5 m
Accuracy: 1.8 m
Time: 05-09-2025 12:53
Note: Gunda thanda village



Latitude: 15.153113
Longitude: 76.38707
Elevation: 533.92±20.0 m
Accuracy: 1.5 m
Time: 08-09-2025 12:41
Note: Gunda thanda village



Latitude: 15.15311
Longitude: 76.387065
Elevation: 530.72±21.1 m
Accuracy: 3.604 m
Time: 09-09-2025 12:33
Note: Gunda thanda village

AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's

Gunda Thanda



Latitude: 15.153108
Longitude: 76.387061
Elevation: 531.42±21.5 m
Accuracy: 4.176 m
Time: 15-09-2025 12:49
Note: Gunda thanda village



Latitude: 15.153114
Longitude: 76.387034
Elevation: 531.42±20.9 m
Accuracy: 3.4 m
Time: 16-09-2025 12:39
Note: Gunda thanda village

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Latitude: 15.153063
Longitude: 76.387067
Elevation: 533.02±22.1 m
Accuracy: 3.629 m
Time: 22-09-2025 12:58
Note: Gunda thanda village



Latitude: 15.153095
Longitude: 76.387037
Elevation: 529.02±25.1 m
Accuracy: 3.805 m
Time: 23-09-2025 12:43
Note: Gunda thanda village

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	:	SEPTEMBER-2025(1 st Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4)1999 RA 2014
9	Report Issued Date	:	03.10.2025
10	Report Number	:	GEMS/BMMIL/FM /2025-26/2414

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-1						
1.	Main Canteen	4664	06.09.2025	07.09.2025	454.52	2000
2.	Near Iron Ore Bottom Hopper	4662	06.09.2025	07.09.2025	1895.34	2000
3.	Iron Ore Screen	4663	06.09.2025	07.09.2025	1052.91	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	4665	06.09.2025	07.09.2025	682.44	2000
5.	Annual Cooler Pellet Discharge bin	4666	06.09.2025	07.09.2025	819.27	2000
6.	Pellet Stock Yard	4712	08.09.2025	09.09.2025	1427.00	2000
III. Sponge Iron Division-1 (kiln 1 & 2)						
7.	Control Room SID-1	4769	09.09.2025	10.09.2025	915.14	2000
8.	Near Product bin	4770	09.09.2025	10.09.2025	293.24	2000
9.	Coal Feeding Area	4771	09.09.2025	10.09.2025	376.48	2000
IV. Induction Furnace & Rolling Mill - 1						
10.	IF Office	4713	08.09.2025	09.09.2025	637.80	2000
11.	TMT Stock Yard	4714	08.09.2025	09.09.2025	380.99	2000
12.	RML Gasifier	4715	08.09.2025	09.09.2025	395.74	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	4772	09.09.2025	10.09.2025	457.82	2000
14.	25 MW ACC	4804	10.09.2025	11.09.2025	221.53	2000
VI. Site Services						
15.	PGP- coal handling system	4716	08.09.2025	09.09.2025	698.71	2000
16.	IF Slag Crusher	4773	09.09.2025	10.09.2025	309.50	2000
17.	Main Gate	4805	10.09.2025	11.09.2025	233.91	2000
18.	Fly ash Dump	4627	05.09.2025	06.09.2025	520.85	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	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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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	:	SEPTEMBER-2025(2nd Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4)1999 RA 2014
9	Report Issued Date	:	03.10.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2694

RESULTS

Sl. NO.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-1						
1.	Main Canteen	5226	22.09.2025	23.09.2025	681.41	2000
2.	Near Iron Ore Bottom Hopper	5224	22.09.2025	23.09.2025	1800.55	2000
3.	Iron Ore Screen	5225	22.09.2025	23.09.2025	479.13	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	5227	22.09.2025	23.09.2025	427.35	2000
5.	Annual Cooler Pellet Discharge bin	5228	22.09.2025	23.09.2025	1762.00	2000
6.	Pellet Stock Yard	5223	22.09.2025	23.09.2025	883.23	2000
III. Sponge Iron Division-1(kiiln 1 & 2)						
7.	Control Room SID-I	5316	24.09.2025	25.09.2025	789.43	2000
8.	Near Product bin	5317	24.09.2025	25.09.2025	340.61	2000
9.	Coal Feeding Area	5318	24.09.2025	25.09.2025	575.41	2000
IV. Induction Furnace & Rolling Mill						
10.	IF Office	5268	23.09.2025	24.09.2025	543.31	2000
11.	TMT Stock Yard	5269	23.09.2025	24.09.2025	933.88	2000
12.	RML Gasifier	5270	23.09.2025	24.09.2025	525.76	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	5319	24.09.2025	25.09.2025	256.12	2000
14.	25 MW ACC	5342	25.09.2025	26.09.2025	302.87	2000
VI. Site Services						
15.	PGP- Coal handling system	5266	23.09.2025	24.09.2025	574.56	2000
16.	IF Slag Crusher	5320	24.09.2025	25.09.2025	924.60	2000
17.	Main Gate	5343	25.09.2025	26.09.2025	361.95	2000
18.	Fly ash Dump	5198	20.09.2025	21.09.2025	335.82	2000

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

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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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	:	SEPTEMBER-2025(1 st Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	03.10.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2496

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
Blast Furnace						
1.	RMHS	4805	10.09.2025	11.09.2025	555.15	2000
2.	Stock House	4807	10.09.2025	11.09.2025	1722.51	2000
3.	Gas Network Area	4808	10.09.2025	11.09.2025	543.16	2000
4.	Blower Area	4860	11.09.2025	12.09.2025	441.89	2000
5.	Gas Cleaning plant (GCP)	4861	11.09.2025	12.09.2025	274.68	2000
6.	Stove Area	4862	11.09.2025	12.09.2025	885.12	2000
7.	Control ROOM (CR)	4863	11.09.2025	12.09.2025	217.19	2000
8.	Pig Casting Machine (PCM)	4884	12.09.2025	13.09.2025	340.26	2000
9.	Slag Granulation Plant (SGP)	4885	12.09.2025	13.09.2025	483.13	2000
10.	Cost House Area	4864	11.09.2025	13.09.2025	1914.21	2000
SMS Area						
1.	Stock House/Vibro Feeders	4886	12.09.2025	13.09.2025	1799.97	2000
2.	Ladle Tapping	4888	12.09.2025	13.09.2025	313.89	2000
3.	Slag pouring Area	4889	12.09.2025	13.09.2025	869.47	2000
MBM						
1.	Near Re-Heating Furnace	4940	13.09.2025	14.09.2025	566.97	2000

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

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

End of the Report

B.B.
Analysed By
Brunda.B
Chemist

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

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

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : 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 : SEPTEMBER-2025(1st Fort Night)
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Method adopted : IS 5182 (Part 4): 1999 RA 2014
- 9 Report Issued Date : 03.10.2025
- 10 Report Number : GEMS/BMMIL/FM/2025-26/2284

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-II						
1.	Ball Mill Area (Zero Meter)	4465	01.09.2025	02.09.2025	198.33	2000
2.	Near Cone Crusher	4467	01.09.2025	02.09.2025	1929.13	2000
3.	Concentrate Thickener	4466	01.09.2025	02.09.2025	556.75	2000
II. Pellet Plant						
4.	PR-6	4468	01.09.2025	02.09.2025	1124.32	2000
5.	Annual Cooler Pellet Discharge bin	4469	01.09.2025	02.09.2025	1162.52	2000
6.	Additive Grinding Building	4515	03.09.2025	04.09.2025	1914.00	2000
III. Sponge Iron Division -2 (Kiln 3 & 4)						
7.	Control room	4488	02.09.2025	03.09.2025	277.56	2000
8.	Near Weigh bridge (dispatch)	4489	02.09.2025	03.09.2025	729.08	2000
9.	Pellet Storage bin	4492	02.09.2025	03.09.2025	832.07	2000
10.	Transfer House area	4490	02.09.2025	03.09.2025	614.62	2000
11.	Production Separation Bin-PSB	4491	02.09.2025	03.09.2025	366.13	2000
IV. Sponge Iron Division -3 (Kiln 5 & 6)						
12.	Near Control room	4516	03.09.2025	04.09.2025	1671.76	2000
13.	Near Coal Crusher	4514	03.09.2025	04.09.2025	1108.60	2000
14.	Near Product bin	4517	03.09.2025	04.09.2025	1839.46	2000
15.	Coal Dryer	4552	04.09.2025	05.09.2025	980.92	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	4519	03.09.2025	04.09.2025	806.07	2000
17.	Monsoon Shed (CPU)	4553	04.09.2025	05.09.2025	731.14	2000
18.	MCC Room (2 nd Gate)	4554	04.09.2025	05.09.2025	117.80	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	4555	04.09.2025	05.09.2025	115.59	2000
20.	2 nd gate weigh bridge Near Coal Screen	4628	05.09.2025	06.09.2025	815.19	2000
21.	CFBC boiler	4556	04.08.2025	05.09.2025	207.52	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	4629	05.09.2025	06.09.2025	280.41	2000
23.	Near Coal storage Shed	4630	05.09.2025	06.09.2025	432.93	2000
24.	Dolochar Processing Area	4631	05.09.2025	06.09.2025	285.99	2000

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

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2026

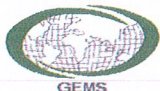
End of the Report

Analysed By
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Chemist

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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	:	SEPTEMBER-2025(2 ND Fort Night)
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Method adopted	:	IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	:	03.10.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/2629

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-II						
1.	Ball Mill Area (Zero Meter)	5059	17.09.2025	18.09.2025	158.90	2000
2.	Near Cone Crusher	5061	17.09.2025	18.09.2025	857.26	2000
3.	Concentrate Thickner	5060	17.09.2025	18.09.2025	286.97	2000
II. Pellet Plant-I						
4.	PR-6	5063	17.09.2025	18.09.2025	581.00	2000
5.	Annual Cooler Pellet Discharge bin	5058	17.09.2025	18.09.2025	1333.86	2000
6.	Additive Grinding Building	5084	18.09.2025	19.09.2025	414.80	2000
III. Sponge Iron Division -2 (Kiln 3&4)						
7.	Control room	5003	16.09.2025	17.09.2025	590.02	2000
8.	Near Weigh bridge (dispatch)	5004	16.09.2025	17.09.2025	730.80	2000
9.	Pellet Storage bin	5007	16.09.2025	17.09.2025	1105.89	2000
10.	Transfer House area	5005	16.09.2025	17.09.2025	560.75	2000
11.	Production Separation Bin-PSB	5006	16.09.2025	17.09.2025	880.80	2000
IV. Sponge Iron Division -2 (Kiln 5&6)						
12.	Near Control room	5085	18.09.2025	19.09.2025	1910.48	2000
13.	Near Coal Crusher	5087	18.09.2025	19.09.2025	1717.33	2000
14.	Near Product bin	5086	18.09.2025	19.09.2025	1736.95	2000
15.	Coal Drier	5157	19.09.2025	20.09.2025	811.52	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	5088	18.09.2025	19.09.2025	1959.14	2000
17.	Monsoon Shed (CPU)	5158	19.09.2025	20.09.2025	447.99	2000
18.	MCC Room (2 nd Gate)	5159	19.09.2025	20.09.2025	414.88	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	5160	19.09.2025	20.09.2025	103.82	2000
20.	2 nd gate weigh bridge Near Coal Screen	5194	20.09.2025	21.09.2025	1174.78	2000
21.	CFBC boiler	5161	19.09.2025	20.09.2025	397.51	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	5195	20.09.2025	21.09.2025	456.38	2000
23.	Near Coal storage Shed	5196	20.09.2025	21.09.2025	1121.50	2000
24.	CPP Dolochar Process Area	5197	20.09.2025	21.09.2025	344.28	2000

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

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	23.09.2024	23.09.2024	23.09.2024	25.04.2025	25.04.2025
5	Calibration Due Date	22.09.2025	22.09.2025	22.09.2025	24.04.2026	24.04.2025

End of the Report

Analysed By
Brunda.B
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	: SEPTEMBER-2025(2 nd Fort Night)
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Method adopted	: IS 5182 (Part 4): 1999 RA 2014
9	Report Issued Date	: 03.10.2025
10	Report Number	: GEMS/BMMIL/FM/2025-26/2228

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
Blast Furnace						
1.	RMHS	5400	27.09.2025	28.09.2025	549.75	2000
2.	Stock House	5401	27.09.2025	28.09.2025	1806.35	2000
3.	Gas Network Area	5344	25.09.2025	26.09.2025	709.54	2000
4.	Blower Area	5381	26.09.2025	27.09.2025	300.50	2000
5.	Gas Cleaning plant (GCP)	5344	25.09.2025	26.09.2025	818.85	2000
6.	Stove Area	5346	25.09.2025	26.09.2025	1159.82	2000
7.	Control ROOM (CR)	5402	27.09.2025	28.09.2025	219.71	2000
8.	Pig Costing Machine (PCM)	5425	29.09.2025	29.09.2025	266.47	2000
9.	Slag Granulation Plant (SGP)	5403	27.09.2025	28.09.2025	344.27	2000
10.	Cost House Area	5404	27.09.2025	28.09.2025	1844.42	2000
SMS Area						
1.	Stock House/Vibro Feeders	5382	26.09.2025	27.09.2025	1872.40	2000
2.	Ladle Tapping	5383	26.09.2025	27.09.2025	353.67	2000
3.	Slag pouring Area	5384	26.09.2025	27.09.2025	1703.85	2000
MBM						
1.	Near Re-Heating Furnace	5386	26.09.2025	27.09.2025	183.45	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	27.09.2024	27.09.2024	27.09.2025	25.04.2025	25.04.2025
5	Calibration Due Date	26.09.2026	26.09.2026	26.09.2026	24.04.2026	24.04.2026

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
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Technical Manager

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Pellet Plant-1 ESP
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 06.09.2025&17.09.2025
12	Date of Sample Analysis	: 08.09.2025&18.09.2025
13	Date of Sample Analysis completion	: 08.09.2025&18.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002415F

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 st Fort Night	2 nd Fort Night	
				06.09.2025	17.09.2025	
	Date of Monitoring			4667	5058	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	55	57	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.35	5.28	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	292799	289175	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	265423	259673	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	27.81	29.64	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	118	108	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	13	8	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.014	0.018	1

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

- 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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GEMS



NABET

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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/ 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 | Sampling Location | : | 2X100 TPD Sponge iron plant Kiln 1 & 2 |
| 10 | Month of Sampling | : | SEPTEMBER-2025 |
| 11 | Date of Sample Received | : | 15.09.2025&23.09.2025 |
| 12 | Date of Sample Analysis | : | 16.09.2025&24.09.2025 |
| 13 | Date of Sample Analysis completion | : | 16.09.2025&24.09.2025 |
| 14 | Report Issued Date | : | 03.10.2025 |
| 15 | Report Number | : | ULR-TC1618025000002721F |

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				15.09.2025	23.09.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	5002	5274	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	28	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	176	171	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	6.46	6.71	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	73017	75950	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	48327	50922	-
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	17.22	15.62	50
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	337	314	NS
9	Carbon Monoxide	GEMS/SOP/69	%	43	39	NS
				0.148	0.156	1

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

Brunda.B
Analysed By
Brunda.B
Chemist

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

**Note:**

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : SEPTEMBER-2025(1st Fort Night)
- 10 Date of Sample Received : 13.09.2025
- 11 Date of Sample Analysis : 15.09.2025
- 12 Date of Sample Analysis completion : 15.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002573F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Induction Furnace 1 & 2											
1	Induction Furnace 1	13.09.2025	4943	Electric Power	28	39	4.62	30	1.2	4.38	150
2	Induction Furnace 2	13.09.2025	4944		27	42	4.83	30	1.3	7.97	150

Sl. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Induction Furnance 1	18812	17864	-
2	Induction Furnance 2	23085	21701	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Rolling Mill Reheating furnace
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 12.09.2025&25.09.2025
12	Date of Sample Analysis	: 13.09.2025&26.09.2025
13	Date of Sample Analysis completion	: 13.09.2025&26.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002534F

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
				1st Fort Night	2nd Fort Night	
				12.09.2025	25.09.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	4890	5341	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	28	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	96	88	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	5.70	5.53	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	10324	10013	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	8311.5	8239.3	-
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	35.07	38.25	50
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	38	34	NS
9	Carbon Monoxide	GEMS/SOP/69	%	117	106	NS
				0.248	0.271	1

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District
2	Customer Reference	:	WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Vayubodhak/ VBSS2
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	Sampling Location	:	AFBC Boiler ESP (25 MW Power Plant)
10	Month of Sampling	:	SEPTEMBER-2025
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date of Sample Analysis completion	:	-
14	Report Issued Date	:	03.10.2025
15	Report Number	:	-

Stack Details

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

Emission Details

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

Note: NS- Not Specified. RA: Reaffirmed,

End of the Report

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

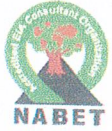


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TC-16180

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**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **SEPTEMBER-2025(1st Fort Night)**
- 10 Date of Sample Received : 11.09.2025
- 11 Date of Sample Analysis : 12.09.2025
- 12 Date of Sample Analysis completion : 12.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002524F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant -I											
1	Iron Ore dump hopper	-		-	-	-	-	30	0.4	-	50
2	Iron Ore Screen bin	11.09.2025	4865	-	30	35	4.93	30	0.4	14.19	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore dump hopper	-	-	-
2	Iron Ore Screen bin	2232	2148	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

**Note:**

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Website : www.gemslp.in



TC-16180

ANNEXURE-19
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.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 : **SEPTEMBER-2025(1st Fort Night)**
- 10 Date of Sample Received : 11.09.2025
- 11 Date of Sample Analysis : 12.09.2025
- 12 Date of Sample Analysis completion : 12.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002526F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
RMHS											
3	Screen, Coal Crusher (CPU)	11.09.2025	4867	-	27	40	4.96	35	1.5	31.19	50
4	Main Crusher	11.09.2025	4868	-	27	35	4.65	25	0.5	22.49	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	31573	29860	-
4	Main Crusher	3284	3161	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

B-2B
Analysed By
Brunda.B
Chemist

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

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : SEPTEMBER-2025(1st Fort Night)
- 10 Date of Sample Received : 04.09.2025,05.09.2025&06.09.2025
- 11 Date of Sample Analysis : 05.09.2025,06.09.2025&08.09.2025
- 12 Date of Sample Analysis completion : 05.09.2025,06.09.2025&08.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002342F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant -I											
5	AGB Main Bag Filter	04.09.2025	4550	-	29	35	4.55	6.5	0.50	13.35	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	04.09.2025	4551	-	30	36	4.58	3.0	0.30	24.89	50
7	Bentonite Powder bin top bag filter	05.09.2025	4633	-	28	34	4.66	3.0	0.30	20.36	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	06.09.2025	4667	-	27	38	5.12	7.0	0.50	25.80	50

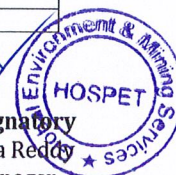
Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
5	AGB Main Bag Filter	3214	3093	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1167	1118	-
7	Bentonite Powder bin top bag filter	1185	1142	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3620	3458	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

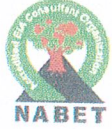


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TC-16180

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 : **SEPTEMBER-2025(1st Fort Night)**
- 10 Date of Sample Received : 10.09.2025
- 11 Date of Sample Analysis : 11.09.2025
- 12 Date of Sample Analysis completion : 11.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002497F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 100 TPD Sponge Iron Kiln 1 & 2											
10	Cooler-1 Discharge & Blending Chute	10.09.2025	4809	---	27	34	4.69	30	1.20	21.84	50
11	Cooler-2 Discharge	10.09.2025	4810	---	28	35	4.79	30	1.20	26.38	50
12	Intermediate Bin & Blending	10.09.2025	4811	---	29	36	5.10	30	1.20	22.00	50
13	Product House	10.09.2025	4812	---	30	35	4.91	30	1.20	23.45	50

Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	19078	18490	-
11	Cooler-2 Discharge	19517	18823	-
12	Intermediate Bin & Blending	20759	19909	-
13	Product House	19985	19219	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

Brunda.B
Analysed By
Brunda.B
Chemist

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

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TC-16180

ANNEXURE-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 : SEPTEMBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 27.09.2025
- 11 Date of Sample Analysis : 29.09.2025
- 12 Date of Sample Analysis completion : 29.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002768F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Induction Furnance 1 & 2											
1	Induction Furnance 1	SHUT DOWN	-	Electric	-	-	-	30	1.2	-	50
2	Induction Furnance 2	27.09.2025	5406	Power	29	41	4.34	30	1.3	11.07	50

Sl. No	Induction Furnance 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Induction Furnance 1	-	-	-
2	Induction Furnance 2	20764	19582	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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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 : **SEPTEMBER-2025(2nd Fort Night)**
- 10 Date of Sample Received : 26.09.2025
- 11 Date of Sample Analysis : 27.09.2025
- 12 Date of Sample Analysis completion : 27.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002758F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant											
1	Iron Ore dump hopper	26.09.2025	5387	---	26	32	4.61	30	0.40	11.98	50
2	Iron Ore Screen bin	26.09.2025	5388	---	25	33	4.78	30	0.40	15.82	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore dump hopper	2086	2026	-
2	Iron Ore Screen bin	2161	2087	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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TC-16180

ANNEXURE-24
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **SEPTEMBER-2025(2nd Fort Night)**
- 10 Date of Sample Received : 27.09.2025
- 11 Date of Sample Analysis : 29.09.2025
- 12 Date of Sample Analysis completion : 29.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002769F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
RMHS											
3	Screen, Coal Crusher (CPU)	27.09.2025	5407	-	27	38	4.91	30	1.50	29.69	50
4	Main Crusher	-	-	-	-	-	-	25	0.50	-	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	31262	29829	-
4	Main Crusher	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

B. B.
Analysed By
Brunda.B
Chemist

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

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **SEPTEMBER-2025(2nd Fort Night)**
- 10 Date of Sample Received : 17.09.2025&18.09.2025
- 11 Date of Sample Analysis : 18.09.2025&19.09.2025
- 12 Date of Sample Analysis completion : 18.09.2025&19.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002625F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant-I											
5	AGB Main Bag Filter	17.09.2025	5046	---	30	38	4.62	6.5	0.50	25.16	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	17.09.2025	5047	---	30	39	4.66	3.0	0.30	23.42	50
7	Bentonite Powder bin top bag filter	17.09.025	5048	---	29	37	4.71	3.0	0.30	18.00	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	18.09.2025	5084	---	29	40	5.31	7.0	0.50	26.69	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
5	AGB Main Bag Filter	3268	3100	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1186	1121	-
7	Bentonite Powder bin top bag filter	1200	1142	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3752	3538	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

B. Q.B.
Analysed By
Brunda.B
Chemist

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

Note:

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : 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 : SEPTEMBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 25.09.2025&29.09.2025
- 11 Date of Sample Analysis : 26.09.2025&30.09.2025
- 12 Date of Sample Analysis completion : 26.09.2025&30.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002749F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/N m ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 100 TPD Sponge Iron Kiln 1 & 2											
10	Cooler-1 Discharge & Blending Chute	25.09.2025	5347	---	28	32	4.77	30	1.20	19.85	50
11	Cooler-2 Discharge	25.09.2025	5348	---	29	33	4.86	30	1.20	20.77	50
12	Intermediate Bin & Blending	25.09.2025	5349	---	28	34	4.72	30	1.20	24.06	50
13	Product House	29.09.2025	5428	---	26	34	4.47	30	1.20	27.18	50

Sl. No	2 X 100 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
10	Cooler-1 Discharge & Blending Chute	19430	18911	-
11	Cooler-2 Discharge	19809	19184	-
12	Intermediate Bin & Blending	19238	18559	-
13	Product House	18191	17560	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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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/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Pellet Plant-2 ESP
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 04.09.2025&16.09.2025
12	Date of Sample Analysis	: 05.09.2025&17.09.2025
13	Date Sample Analysis Completion	: 05.09.2025&17.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002344F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				04.09.2025	16.09.2025	
	Date of Monitoring					
	Sample Code			4557	5014	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	59	61	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.22	5.70	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	285921	312213	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	256032	278084	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	30.04	31.36	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	148	129	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	34	25	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.022	0.019	1%

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

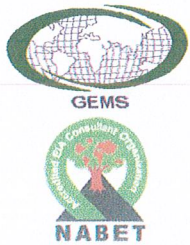
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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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/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : SID Axis 3&4
- 10 Month of Sampling : SEPTEMBER-2025
- 11 Date of Sample Received : 05.09.2025&18.09.2025
- 12 Date of Sample Analysis : 06.09.2025&19.09.2025
- 13 Date Sample Analysis Completion : 06.09.2025&19.09.2025
- 14 Report Issued Date : 03.10.2025
- 15 Report Number : ULR-TC1618025000002403F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				05.09.2025	18.09.2025	
	Date of Monitoring			4632	5089	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	125	128	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.19	7.27	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	157494	185130	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	117550	136627	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	32.42	33.29	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	414	486	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	19	32	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.124	0.118	1%

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Website : www.gemslp.in



TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : SID Axis 5&6
- 10 Month of Sampling : SEPTEMBER-2025
- 11 Date of Sample Received : 09.09.2025&19.09.2025
- 12 Date of Sample Analysis : 10.09.2025&20.09.2025
- 13 Date Sample Analysis Completion : 10.09.2025&20.09.2025
- 14 Report Issued Date : 03.10.2025
- 15 Report Number : ULR-TC1618025000002449F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				08.09.2025	19.09.2025	
	Date of Monitoring					
	Sample Code			4717	5162	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	128	131	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.93	5.76	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	150888	146646	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	111865	107928	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.32	34.91	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	539	611	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	36	34	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.132	0.124	1%

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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Website : www.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/ VBSS2
		Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025
		Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: 1X70 MW-CFBC Boiler ESP
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 09.09.2025&22.09.2025
12	Date of Sample Analysis	: 10.09.2025&23.09.2025
13	Date Sample Analysis Completion	: 10.09.2025&23.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002482F

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				09.09.2025	22.09.2025	
	Date of Monitoring					
	Sample Code			4774	5229	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	108	113	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.67	5.55	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	144178	141373	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	112591	109042	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	26.66	28.47	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	19	17	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	134	129	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.024	0.031	1%

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

End of the Report

BL O.B
Analysed By
Brunda.B
Chemist

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

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Website : www.gemslip.in



TC-16180

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Sampling Location : 2X70 MW CFBC Boiler ESP
- Month of Sampling : SEPTEMBER-2025
- Date of Sample Received : 11.09.2025&24.09.2025
- Date of Sample Analysis : 12.09.2025&25.09.2025
- Date Sample Analysis Completion : 12.09.2025&25.09.2025
- Report Issued Date : 03.10.2025
- Report Number : ULR-TC161802500002525F

Stack Details

- Fuel Used : Coal
- Stack Height (mtr) : 110.0
- Stack Diameter (mtr) : 8.00

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1st Fort Night	2nd Fort Night	
	Date of Monitoring			11.09.2025	24.09.2025	
	Sample Code			4866	5321	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	25	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	123	118	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.28	5.91	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	1135875	1069611	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	850388	813915	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	40.93	36.20	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	51	49	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	325	292	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.032	0.029	NS

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

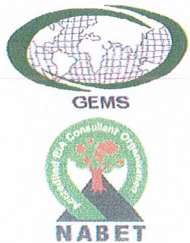
End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: SMS
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 13.09.2025&26.09.2025
12	Date of Sample Analysis	: 14.09.2025&27.09.2025
13	Date Sample Analysis Completion	: 14.09.2025&27.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC161802500002572F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				13.09.2025	26.09.2025	
	Date of Monitoring			4942	5388	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	26	25	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	81	78	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.52	5.35	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	89873	87133	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	75477	73636	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	19.16	17.44	50

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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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/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Barmill
10	Month of Sampling	: SEPTEMBER-2025
11	Date of Sample Received	: 13.09.2025&27.09.2025
12	Date of Sample Analysis	: 15.09.2025&29.09.2025
13	Date Sample Analysis Completion	: 15.09.2025&29.09.2025
14	Report Issued Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002532F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				13.09.2025	27.09.2025	
	Date of Monitoring					
	Sample Code			4883	5405	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	25	-
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	5.94	6.55	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	151109	166572	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	116624	127362	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	15.54	15.47	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	341	318	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	26	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.504	0.458	NS

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Website : www.gemslp.in



TC-16180

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

Analysis Report of Stack Emission

- | | | |
|----|---------------------------------|--|
| 1 | Name of the Industry | : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. |
| 2 | Customer Reference | : WORKORDER NO.4500003634 DATED:01.07.2025 |
| 3 | Sample collected by | : GLOBAL Environment & Mining Services |
| 4 | Particulars of sample collected | : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Blast Furnace -Stove Waste Gas |
| 10 | Month of Sampling | : SEPTEMBER-2025 |
| 11 | Date of Sample Received | : 15.09.2025&29.09.2025 |
| 12 | Date of Sample Analysis | : 16.09.2025&30.09.2025 |
| 13 | Date Sample Analysis Completion | : 16.09.2025&30.09.2025 |
| 14 | Report Issued Date | : 03.10.2025 |
| 15 | Report Number | : ULR-TC1618025000002600F |

Stack Details

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

Emission Details

Sl. No	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				15.09.2025	29.09.2025	
	Date of Monitoring					
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	4989	5424	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	25	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	131	134	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	6.25	6.17	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	101846	100440	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	74817	73192	-
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	11.98	13.03	30.0
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	86	75	200
9	Carbon Monoxide	GEMS/SOP/69	%	24	17	150
				0.482	0.507	<1%

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : SEPTEMBER-2025 (1st Fort Night)
- 10 Date of Sample Received : 11.09.2025
- 11 Date of Sample Analysis : 12.09.2025
- 12 Date Sample Analysis Completion : 12.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002524F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	-	-	---	-	-	-	30	1.20	-	50
2	Iron Ore Screening	11.09.2025	4865	---	28	34	4.90	30	0.90	19.53	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	11226	10825	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : SEPTEMBER-2025(1st Fort Night)
- Date of Sample Received : 03.09.2025&04.09.2025
- Date of Sample Analysis : 04.09.2025&05.09.2025
- Date Sample Analysis Completion : 04.09.2025&05.09.2025
- Report Issued Date : 03.10.2025
- Report Number : ULR-TC1618025000002323F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant-II											
3	AGB main bag Filter	03.09.2025	4520	---	27	34	4.63	6.5	0.5	18.33	50
4	Lime & Bentonite Powder bin top bag filter	03.09.2025	4521	---	28	35	4.49	6.5	0.5	16.07	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	04.09.2025	4558	---	28	38	4.88	20	0.5	28.33	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	AGB main bag Filter	3271	3173	-
4	Lime & Bentonite Powder bin top bag filter	3177	3069	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3453	3298	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The measured values are within the limits

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : SEPTEMBER-2025(1st Fort Night)
- Date of Sample Received : 04.09.2025,06.09.2025,08.09.2025&09.09.2025
- Date of Sample Analysis : 05.09.2025,08.09.2025,09.09.2025&10.09.2025
- Date Sample Analysis Completion : 05.09.2025,08.09.2025,09.09.2025&10.09.2025
- Report Issued Date : 03.10.2025
- Report Number : ULR-TC1618025000002346F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 500 TPD Sponge Iron Kiln 1 & 2											
9	Cooler Discharge -1	04.09.2025	4559	---	28	34	4.61	30	1.20	26.75	50
10	Cooler Discharge -2	04.09.2025	4560	---	29	34	5.07	30	1.20	22.04	50
11	Coal stock house	06.09.2025	4669	---	28	33	5.04	30	1.20	11.04	50
12	PSB 1 System-1	06.09.2025	4670	---	29	36	4.67	30	1.20	25.64	50
13	PSB 1 System-2	08.09.2025	4718	---	28	35	4.94	30	1.20	28.94	50
14	PSB 2 System-1 MCC	08.09.2025	4719	---	29	36	4.81	30	1.20	32.16	50
15	PSB 1 System-2 Road	08.09.2025	4720	---	30	37	4.89	30	1.20	28.40	50
16	Junction House Old & New	09.09.2025	4775	---	28	35	4.91	30	1.20	32.99	50
17	Storage Bunker	09.09.2025	4776	---	29	34	4.75	30	1.20	25.68	50
18	Dispatch	-	-	---	-	-	-	30	1.20	-	50

Sl. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
9	Cooler Discharge -1	18770	18126	-
10	Cooler Discharge -2	20642	19926	-
11	Coal stock house	20504	19852	-
12	PSB 1 System-1	19017	18224	-
13	PSB 1 System-2	20117	19408	-
14	PSB 2 System-1 MCC	19592	18860	-
15	PSB 1 System-2 Road	19903	19085	-
16	Junction House Old & New	20000	19308	-
17	Storage Bunker	19325	18682	-
18	Dispatch	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Website : www.gemslip.in



TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **SEPTEMBER-2025 (1st Fort Night)**
- 10 Date of Sample Received : 09.09.2025&12.09.2025
- 11 Date of Sample Analysis : 10.09.2025&13.09.2025
- 12 Date Sample Analysis Completion : 10.09.2025&13.09.2025
- 13 Report Issued Date : **03.10.2025**
- 14 Report Number : **ULR-TC1618025000002485F**

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2X500 TPD Sponge Iron Kiln 3&4											
19	DE 3, Axis 3 CD	-	-	---	-	-	-	30	1.20	-	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	09.09.2025	4777	---	30	36	4.61	30	1.20	29.99	50
21	DE 8 & 12 I-Bin, (Stand By)	12.09.2025	4891	---	27	34	4.66	30	1.90	32.33	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	12.09.2025	4892	---	28	36	4.76	30	1.90	34.49	50
23	Coal Dryer	12.09.2025	4893	---	27	38	5.04	30	1.20	34.92	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
19	DE 3, Axis 3 CD	-	-	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	18770	18018	-
21	DE 8 & 12 I-Bin, (Stand By)	47611	46021	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	48552	46472	-
23	Coal Dryer	20535	19513	-

INFERENCE: The Measured Values are within the limits.

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

ANNEXURE-39
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: SEPTEMBER-2025(2 nd Fort Night)
10	Date of Sample Received	: 26.09.2025
11	Date of Sample Analysis	: 27.09.2025
12	Date Sample Analysis Completion	: 27.09.2025
13	Report Issued Date	: 03.10.2025
14	Report Number	: ULR-TC1618025000002759F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	Shut down	-	---	-	-	-	-	-	-	50
2	Iron Ore Screening	26.09.2025	5387	---	25	32	4.90	30	0.90	19.53	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	10767	10428	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits.

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7Days.
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TC-16180

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

Analysis Report of Stack Emission

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : SEPTEMBER-2025(2nd Fort Night)
- Date of Sample Received : 16.09.2025
- Date of Sample Analysis : 17.09.2025
- Date Sample Analysis Completion : 17.09.2025
- Report Issued Date : 03.10.2025
- Report Number : ULR-TC1618025000002604F

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 ³	KSPCB Std mg/Nm ³
--------	-------------------	--------------------	-------------	-----------	-------	-------	---------	--------------	--------------	-----------------------	------------------------------

Chimneys attached to Bag Filter (De dusting Units)

Pellet Plant

3	AGB main bag Filter	16.09.2025	5015	---	28	33	4.96	6.5	0.50	22.00	50
4	Lime & Bentonite Powder bin top bag filter	16.09.2025	5016	---	29	34	4.75	6.5	0.50	19.76	50
5	AGB De dusting Bag Filter	-	-	---	-	-	-	6.0	0.60	-	50
6	Powder Coal main bag filter	-	-	---	-	-	-	6.0	0.60	-	50
7	RP-6 Conveyor bag Filter	-	-	---	-	-	-	6.0	0.30	-	50
8	Pellet discharge bin bag filter	16.09.2025	5017	---	30	38	4.94	2.0	0.50	28.89	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	AGB main bag Filter	3508	3407	-
4	Lime & Bentonite Powder bin top bag filter	3357	3243	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main Bagfilter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin Bagfilter	3495	3331	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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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 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: SEPTEMBER-2025(2 nd Fort Night)
10	Date of Sample Received	: 18.09.2025,19.09.2025,22.09.2025&23.09.2025
11	Date of Sample Analysis	: 19.09.2025,20.09.2025,23.09.2025&24.09.2025
12	Date Sample Analysis Completion	: 19.09.2025,20.09.2025,23.09.2025&24.09.2025
13	Report Issued Date	: 03.10.2025
14	Report Number	: ULR-TC1618025000002638F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2 X 500 TPD Sponge Iron Kiln 1 & 2											
9	Cooler Discharge -1	18.09.2025	5090	Coal	29	37	4.67	30	1.2	25.2	50
10	Cooler Discharge -2	18.09.2025	5091	Coal	29	39	5.15	30	1.2	23.01	50
11	Coal stock house	19.09.2025	5163	Coal	28	32	4.93	30	1.2	13.17	50
12	PSB 1 System-1	19.09.2025	5164	Coal	29	36	4.78	30	1.2	30.34	50
13	PSB 1 System-2	19.09.2025	5165	Coal	28	35	4.87	30	1.2	31.49	50
14	PSB 2 System-1 MCC	22.09.2025	5230	Coal	29	36	4.70	30	1.2	33.27	50
15	PSB 1 System-2 Road	22.09.2025	5231	Coal	30	37	4.83	30	1.2	40.19	50
16	Junction House Old & New	22.09.2025	5232	Coal	29	35	5.01	30	1.2	35.68	50
17	Storage Bunker	23.09.2025	5271	Coal	28	34	4.59	30	1.2	25.16	50
18	Dispatch	-	-	---	-	-	-	30	1.2	-	50

Sl. No	2 X 500 TPD Sponge Iron Kiln 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
9	Cooler Discharge -1	19019	18108	-
10	Cooler Discharge -2	20956	19825	-
11	Coal stock house	20078	19555	-
12	PSB 1 System-1	19466	18664	-
13	PSB 1 System-2	19826	19059	-
14	PSB 2 System-1 MCC	19141	18430	-
15	PSB 1 System-2 Road	19660	18802	-
16	Junction House Old & New	20414	19639	-
17	Storage Bunker	18680	18104	-
18	Dispatch	-	-	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits.

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : SEPTEMBER-2025(2nd Fort Night)
- 10 Date of Sample Received : 23.09.2025&24.09.2025
- 11 Date of Sample Analysis : 24.09.2025&24.09.2025
- 12 Date Sample Analysis Completion : 24.09.2025&24.09.2025
- 13 Report Issued Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002719F

RESULTS

Sl. NO	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2X500 TPD Sponge Iron Kiln 3&4											
19	DE 3, Axis 3 CD	23.09.2025	5272	---	29	35	4.55	30	1.20	28.17	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	23.09.2025	5273	---	29	36	4.86	30	1.20	30.13	50
21	DE 8 & 12 I-Bin, (Stand By)	24.09.2025	5323	---	25	35	4.74	30	1.90	33.05	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	24.09.2025	5322	---	26	36	4.85	30	1.90	32.55	50
23	Coal Dryer	24.09.2025	5324	---	27	38	4.96	30	1.20	35.13	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
19	DE 3, Axis 3 CD	18509	17823	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	19793	18988	-
21	DE 8 & 12 I-Bin, (Stand By)	48352	46690	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	49470	47471	-
23	Coal Dryer	20187	19233	-

Parameter	Protocol
Particulate Matter (mg/Nm ³)	IS: 11255 (Part 1) - 1985 (reaffirmed 2014)
Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)
Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)

INFERENCE: The Measured Values are within the limits.

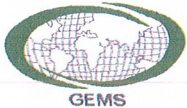
Brunda.B
Analysed By
Brunda.B
Chemist

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

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

Note:

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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 : **SEPTEMBER-2025**
 Report Issue Date : **03.10.2025**
 Method Adopted : IS 9989-1981 Reaffirmed 2014
 Report No : **ULR-TC1618025000002285F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	01.09.2025	47.6	54.8	75
2	BF Blower House Entrance	01.09.2025	69.6	73.6	75
3	Transit House	02.09.2025	50.0	56.7	75
4	BF-7th Gate	02.09.2025	44.9	52.4	75
5	Gunda Road	03.09.2025	48.6	54.8	75
6	Gunda Railway Station	03.09.2025	44.8	53.4	75
7	Bagging Shed	04.09.2025	52.8	58.2	75
8	Railway Siding	04.09.2025	50.0	62.8	75
9	SMS-Vibro Feeders	05.09.2025	60.5	71.4	75
10	Bricks Plant	05.09.2025	42.2	59.2	75
11	Kempuhalla (Wagon Tippler)	06.09.2025	52.4	57.8	75
12	Danapura Bridge	06.09.2025	50.0	66.8	75
13	2nd Gate	08.09.2025	53.4	61.4	75
14	MBM-Scale pit	08.09.2025	53.4	62.8	75
15	Dispatch (Truck Parking Area)	08.09.2025	68.6	72.8	75

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

INFERENCE

As per CPCB Standards,

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

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

Authorised Signatory

K. Ramakrishna Reddy

Technical Manager



Note:

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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
 Instrument Details : Sl. No: Q679952
 : Date of Calibration:16.12.2024
 : Calibration Due Date:15.12.2025
 Month : SEPTEMBER-2025
 Report Issue Date : 03.10.2025
 Method Adopted : IS 9989-1981 Reaffirmed 2014
 Report No : ULR-TC1618025000002607F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	18.09.2025	49.6	55.1	75
2	BF Blower house entrance	16.09.2025	66.6	73.8	75
3	Transit House	18.09.2025	58.2	66.0	75
4	BF-7th gate	16.09.2025	46.0	50.2	75
5	Gunda Road	19.09.2025	52.4	57.3	75
6	Gunda Railway Station	19.09.2025	48.2	58.6	75
7	Bagging Shed	20.09.2025	61.2	68.6	75
8	Railway Siding	20.09.2025	52.4	63.8	75
9	SMS-Vibro feeders	17.09.2025	66.1	71.3	75
10	Bricks Plant	22.09.2025	69.6	74.2	75
11	Kempuhalla (Wagon Tippler)	22.09.2025	50.0	59.0	75
12	Danapura Bridge	23.09.2025	51.4	63.4	75
13	2nd Gate	23.09.2025	49.8	55.6	75
14	MBM Scale pit	17.09.2025	68.7	73.4	75
15	Dispatch (Truck Parking Area)	23.09.2025	61.8	68.3	75

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

INFERENCE

As per CPCB Standards,

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

End of the Report

Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



Note:

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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 : SEPTEMBER-2025
Report Issue Date : 03.10.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : ULR-TC1618025000002287F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)							
			Day Time			Standard	Night Time			Standard
			Min	Max	Avg		Min	Max	Avg	
1	Danapur Village	01.09.2025	45.8	54.6	52.24	55	34.1	40.9	37.51	45
2	Mariyammana Halli	02.09.2025	48.2	56.1	52.14		37.6	42.5	38.05	
3	Hanumana Halli	03.09.2025	51.9	55.6	53.75		35.2	39.6	37.40	
4	Galemanagudi	04.09.2025	53.1	58.7	54.40		35.9	44.1	42.65	
5	G.Nagalapura Village	05.09.2025	53.8	53.1	52.46		36.3	40.7	37.01	
6	Gunda Tanda Village	06.09.2025	49.2	53.8	51.65		36.1	40.2	36.85	

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

INFERENCE

As per CPCB Standards,

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

End of the Report

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

NOISE: (AMBIENT STANDARDS)

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

Note:

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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	: 4674
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002426F

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	-	7.51	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1500	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	880	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 ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	13.37	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	106.84	-	-
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	104.20	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	67.43	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	538.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	267.02	250max	1000 max

Note:

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

ANNEXURE-46

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.38	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	10.82	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	462.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.09	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

Note: GW1: Danapur Village. NR-No relaxation.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limits.******End of the Report****

Brunda.B
Analysed By
 Brunda.B
 Chemist

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

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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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 : 4674
- 10 Date of Sampling : 06.09.2025
- 11 Sample Received : 06.09.2025
- 12 Date of Analysis : 07.09.2025
- 13 Date of Analysis Completion : 13.09.2025
- 14 Report Issue Date : 03.10.2025
15. Report Number : GEMS/BMMIL/GW/2025-26/2426

Results

Sl. No	Parameters	Protocol	Unit	Danapur Village (GW1)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation


Analysed By
Brunda B
Chemist


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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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	: 4676
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002424F

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	-	7.51	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1100	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	660	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	105.85	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	80.34	-	-
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	39.59	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	43.81	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	279.3	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	183.23	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	0.39	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	10.81	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	196.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.11	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

Brunda.B
Analyzed By
 Brunda.B
 Chemist

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

Note:

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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	: 4676
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2424

Results

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

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

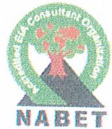
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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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	: 4677
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002425F

Results

Sl. No.	Parameters	Protocol	Unit	Galemmana Gudi Village (GW3)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.96	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2000	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1140	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	110.62	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	195.54	-	-
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	110.42	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	74.2	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	581.4	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	354.39	250max	1000 max

Note:

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

ANNEXURE-48

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.45	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	13.01	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	392.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.12	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

INFERENCE

As per Standards IS: 10500:2012

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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ANNEXURE-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	:	4677
10	Date of Sampling	:	06.09.2025
11	Sample Received	:	06.09.2025
12	Date of Analysis	:	07.09.2025
13	Date of Analysis Completion	:	13.09.2025
14	Report Issue Date	:	03.10.2025
15	Report Number	:	GEMS/BMMIL/GW/2025-26/2425

Results

Sl. No	Parameters	Protocol	Unit	Galemmana Gudi Village (GW3)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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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	: 4675
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002423F

Results

Sl. No.	Parameters	Protocol	Unit	Mariyamm anaHalli Village (GW4)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.53	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1400	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	824	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.3	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	236.38	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	96.16	-	-
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	54.82	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	70.11	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	425.6	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	197.33	250max	1000 max

Note:

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

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TC-16180

ANNEXURE-49

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.43	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	8.93	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	240.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.10	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

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

BL
Analysed By
 Brunda.B
 Chemist

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

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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Website : www.gemslp.in

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 4675
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2423

Results

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

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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TC-16180

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 4678
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002426F

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	-	7.72	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1300	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	826	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	152.31	200max	400max
7.	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.1	-	-
8.	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	120.27	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	127.94	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	11.15	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	365.75	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	187.26	250max	1000 max

Note:

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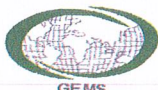
TC-16180

ANNEXURE-50

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.43	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	15.28	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	280.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.08	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

Note: GW5: Gunda Thanda. NR-No relaxation.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.******End of the Report*****BL Q.S***Analysed By****Brunda.B****Chemist***nuv*
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	: 4678
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2426

Results

Sl. No	Parameters	Protocol	Unit	Gunda Thanda (GW5)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Color	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02max	NR
22	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
23	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
24	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
25	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
26	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
27	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
28	Total Coli form count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-
29	Escherichia coli count	IS : 15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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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	:	4679
10	Date of Sampling	:	06.09.2025
11	Sample Received	:	06.09.2025
12	Date of Analysis	:	07.09.2025
13	Date of Analysis Completion	:	13.09.2025
14	Report Issue Date	:	03.10.2025
15	Report Number	:	ULR-TC1618025000002427F

Results

Sl. No.	Parameters	Protocol	Unit	G. Nagalapura Village (GW6)	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.60	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1580	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	920	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.3	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	35.85	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	29.31	-	-
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	130.98	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	53.86	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	549.1	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	317.14	250max	1000 max

Note:

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Website : www.gemslp.in



TC-16180

ANNEXURE-51

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.29	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	12.24	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	446.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	Nil	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.10	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

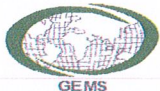
Note: GW6: G Nagalapura Village. NR-No relaxation.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.******End of the Report****

Brunda.B
Analysed By
 Brunda.B
 Chemist

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

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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Website : www.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	: 4679
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/2427

Results

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

Note: Ab: Absent, NR: No Relaxation

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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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	: 4680
10	Date of Sampling	: 06.09.2025
11	Sample Received	: 06.09.2025
12	Date of Analysis	: 07.09.2025
13	Date of Analysis Completion	: 13.09.2025
14	Report Issue Date	: 03.10.2025
15	Report Number	: ULR-TC1618025000002428F

Results

Sl. No.	Parameters	Protocol	Unit	RO Drinking Water	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.41	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	320	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	192	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	<1.0	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	33.80	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	64.0	-	-
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	14.46	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	8.75	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	72.2	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	21.14	250max	1000 max

Note:

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GLOBAL ENVIRONMENT & MINING SERVICES LLP

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TC-16180

ANNEXURE-52

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.09	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E : 2023	mg/L	0.51	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	64.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.09	0.30max	NR
19.	Chromium as Cr	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.01	0.05 max	NR

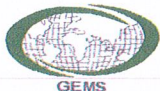
Note: W6: RO Drinking Water. NR-No relaxation. Ab-Absent.**INFERENCE****As per Standards IS: 10500:2012****Report Status: - Measured Values for the above parameters are within the limit.******End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

K. Ramakrishna Reddy
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.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Water
- 8 Sample Type : RO Drinking Water
- 9 Sample Code : 4680
- 10 Date of Sampling : 06.09.2025
- 11 Sample Received : 06.09.2025
- 12 Date of Analysis : 07.09.2025
- 13 Date of Analysis Completion : 13.09.2025
- 14 Report Issue Date : 03.10.2025
- 15 Report Number : GEMS/BMMIL/RO/2025-26/2428

Results

Sl. No	Parameters	Protocol	Unit	RO Drinking Water	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
20	Colour	APHA 24th Edition -2120 C:2023	Hazen	<5	5max	15max
21	Total Residual chlorine	APHA 24th Edition-4500-Cl B:2023	mg/L	Nil	0.2max	1.0max
22	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	Nil	0.8max	No Relaxation
23	Selenium as Se	APHA 24th Edition 3114 C : 2023	mg/L	<0.01	0.01max	No Relaxation
24	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.02 max	NR
25	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.10 max	0.30 max
26	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.05 max	1.50 max
27	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	<1.0	5 max	15 max
28	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	<0.01	0.01 max	NR
29	Arsenic as As	APHA 24th Edition 3114B : 2023	mg/L	<0.01	0.01 max	0.05 max
30	Cadmium as Cd	APHA 24th Edition 3111 B : 2023	mg/L	<0.001	0.003 max	NR
31	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05max	No Relaxation
32	Phenolic Compound as phenols	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	1.0max	-
33	Boron as B	APHA 24th Edition 4500BB: 2023	mg/L	BDL	0.5max	1.0
34	Escherichia coli count	IS:15185:2016	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100ml sample	-

Note: Ab: Absent, NR: No Relaxation,

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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ANNEXURE-53
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

- Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- Sample collected by : Global Environment & Mining Services LLP
- Particulars of sample collected : Composite Sampling
- Sampling Procedure : GEMS-LD/SOP/32
- Discipline : Chemical
- Group : Pollution & Environment
- Sample Type : Sewage Treatment Plant (Outlet)
- Date of Sampling : 06.09.2025
- Sample Received : 06.09.2025
- Date of Analysis : 07.09.2025
- Date of Analysis Completion : 13.09.2025
- Report Issue Date : 03.10.2025
- Report Number : ULR-TC1618025000002429F

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
		Sample code	-	4681	4682	4683	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.84	7.49	7.24	6.5 to 8.5
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	4.0	4.0	8.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	8.0	2.0	2.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	40.0	20.0	20.0	<50
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	6.0	8.0	8.0	10

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

STP 45 KLD - Near Fortivia

STP-1 90 KLD -Near ISP Area

STP-2 90 KLD -Near Gunda Guest House

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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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 : Sewage Treatment Plant (Outlet)
- 9 Date of Sampling : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : 03.10.2025
- 14 Report Number : GEMS/BMMIL/STP/2025-26/2429

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
		Sample code	-	4681	4682	4683	
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 ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	BDL	-
10.	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3111Cr B : 2023	mg/L	<0.001	<0.001	<0.001	-
11.	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.68	2.24	3.08	5
12.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	3.22	2.94	4.20	10
13.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/100ml	27	32	43	Less than 100

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

STP 45 KLD – Near Fortivia

STP-1 90 KLD –Near ISP Area

STP-2 90 KLD –Near Gunda Guest House


Analysed By
 Brunda B
 Chemist


Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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Website : www.gemslp.in



TC-16180

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.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	: Waste Water
9	Date of Sampling	: 06.09.2025
10	Sample Received	: 06.09.2025
11	Date of Analysis	: 07.09.2025
12	Date of Analysis Completion	: 13.09.2025
13	Report Issue Date	: 03.10.2025
14	Report Number	: ULR-TC1618025000002432F

Results

Sl. No.	Parameters	Protocol	Unit	Results		As per KSPCB Std
				Neutralization Pit 70 MW Power Plant	Neutralization Pit 2x70 MW Power Plant	
				Sample Code		
				4684	4685	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.70	8.72	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	28.0	20.0	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	112.0	104.0	250
4.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	4.0	2.0	10

Note: BDL-Below detectable Limit.

INFERENCE: The Measured values are within the Limit.

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

B. B.
Analysed By
Brunda.B
Chemist

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

Note:

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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500003634 DATED:01.07.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : **03.10.2025**
14. Report Number : **ULR-TC1618025000002434F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
			Sample code	4686	4687	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.84	7.82	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	0.00	0.00	3.0
3.	Fluorides as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.56	0.25	1.3

INFERENCE: The measured values are within the Limit

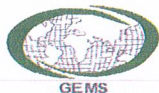
****End of the Report****

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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ANNEXURE-55
GEMS-LD/TF/23/01**Analysis Report of 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 : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : **03.10.2025**
14. Report Number : **GEMS/SW/2025-26/2434**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
			Sample code	4686	4687	
4	Arsenic as As	APHA 24th Edition 3114- B : 2023	mg/L	<0.1	<0.1	0.2
5	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.6	5.4	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	10	10	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/ 100 ml	80	90	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-

B. B.
Analysed By
Brunda B
Chemist

K. R.
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 : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : 03.10.2025
- 14 Report Number : ULR-TC1618025000002436F

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
			Sample code	4688	4689	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.49	8.08	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	0.0	0.0	3.0
3.	Fluorides as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.31	0.28	1.5

INFERENCE: The measured values are within the Limit

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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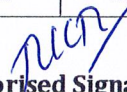
ANNEXURE-56
GEMS-LD/TF/23/01

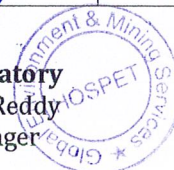
Analysis Report of Water Quality Data

- 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 : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : **03.10.2025**
- 14 Report Number : **GEMS/SW/2025-26/2436**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
			Sample code	4688	4689	
4	Arsenic as As	APHA 24th Edition 3114-B:2023	mg/L	<0.1	<0.1	0.2
5	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.1	5.3	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	30	30	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr ⁶⁺)	APHA 24th Edition 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/100 ml	70	90	500
	Escherichia coli or E. coli	IS : 1622:1981	MPN/100 ml	Absent	Absent	-


Analysed By
Brunda B
Chemist


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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TC-16180

ANNEXURE-57
GEMS-LD/TF/23/01

Analysis Report of Surface Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500003634 DATED:01.07.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Composite Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Pollution & Environment
8	Sample Type	: Surface Water
9	Date of Sampling	: 06.09.2025
10	Sample Received	: 06.09.2025
11	Date of Analysis	: 07.09.2025
12	Date of Analysis Completion	: 13.09.2025
13	Report Issue Date	: 03.10.2025
14	Report Number	: ULR-TC1618025000002438F

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
				Sample Code	4690
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.15	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	0.12	1.5
4.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	286	-
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	14.0	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.

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

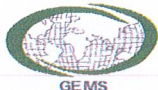
Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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ANNEXURE-57
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

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- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 06.09.2025
- 10 Sample Received : 06.09.2025
- 11 Date of Analysis : 07.09.2025
- 12 Date of Analysis Completion : 13.09.2025
- 13 Report Issue Date : **03.10.2025**
14. Report Number : **GEMS/SW/2025-26/2438**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
Sample Code			4690		
6.	Color	APHA 24th Editon -2120 C:2023	Hazen	15	300
7.	Arsenic as As	APHA 24thEdition3114- B : 2023	mg/L	BDL	0.2
8.	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	5.4	>5.0
9.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05
10.	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	0.005
11.	Chromium (as Cr ⁶⁺)	APHA 24th Editon 3500 Cr-B:2023	mg/L	BDL	1.0
12.	Total Coliform Organisms,				
	Total Coli forms	IS :1622:1981	MPN/100 ml	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.


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