



BMM Ispat Ltd.,

ENVIRONMENTAL MONITORING REPORT



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

JUNE-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

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Website : www.gemslp.in

PREFACE

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


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

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

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

for GLOBAL Environment & Mining Services LLP

Place: Hosapete
Date: 02.07.2025


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

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

2.0 Fugitive Emission Monitoring

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

3.0 Stack Monitoring

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

DATA ANALYSIS

3.1 BUFFERZONE AMBIENT AIR QUALITY STATUS

Danapur Village (A1)

At this location, average of PM10, PM2.5, SO2, NO2 values Average 44.30,14.21,10.36 & 13.01 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 47.48, 13.60, 9.86 & 12.25 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 43.30, 14.59, 10.96 & 13.52µg/m3 respectively. All above the values were found within the Limits. Results given in **Annexure-3**.

Galemmanagudi Village (A4)

At this location, average of PM10, PM2.5, SO2, NO2 values Average 38.45, 16.06, 13.70 & 17.52 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 36.00, 10.57, 9.82 & 12.14 $\mu\text{g}/\text{m}^3$ 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 36.03, 12.38, 8.42 & 10.08 $\mu\text{g}/\text{m}^3$ 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 171.41 $\mu\text{g}/\text{m}^3$, maximum value 1937.5 $\mu\text{g}/\text{m}^3$ and average value 875.94 $\mu\text{g}/\text{m}^3$. The Fugitive air quality 1st & 2nd Fortnight Results given in **Annexure-7 to Annexure-12**.

5.2 STACK MONITORING

Stack emission level was monitored all chimneys' PM values (mg/Nm^3) 1st and 2nd Fortnight Minimum Value 5.00 mg/Nm^3 , Maximum Value 41.24 mg/Nm^3 & Average Value 25.51 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 46.0 to 72.3 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.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A1-Danapur Village
Duration of Monitoring : 24 Hour
Report Issued Date : 02.07.2025
Report Number : ULR-TC1618025000000720F

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
02.06.2025	03.06.2025	1556	41.69	100	10.27	60	10.22	80	15.04	80
03.06.2025	04.06.2025	1594	42.79		15.79		11.14		13.39	
12.06.2025	13.06.2025	1919	34.06		8.47		9.07		11.69	
13.06.2025	14.06.2025	1964	35.61		12.01		12.07		13.99	
17.06.2025	18.06.2025	2064	45.67		11.78		9.96		11.54	
18.06.2025	19.06.2025	2111	38.01		15.19		11.95		12.35	
23.06.2025	24.06.2025	2241	53.26		18.47		10.01		13.15	
24.06.2025	25.06.2025	2298	63.29		21.68		8.47		12.93	
Average			44.30		14.21		10.36		13.01	

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

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

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

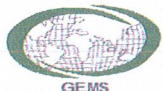
BA S.B
Analysed By
Brunda.B
Chemist

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.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey
- 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysis or documentation



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Website : www.gemslip.in

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyzer
 Month : JUNE-2025
 Location : A1-Danapur Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMMIL/NAAQ/2025-26/720

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1556	<0.01	4.0
2	03.06.2025	1594	<0.01	
3	12.06.2025	1919	<0.01	
4	13.06.2025	1964	<0.01	
5	17.06.2025	2064	<0.01	
6	18.06.2025	2111	<0.01	
7	23.06.2025	2241	<0.01	
8	24.06.2025	2298	<0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

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

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



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

AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

Near VRM Hospital

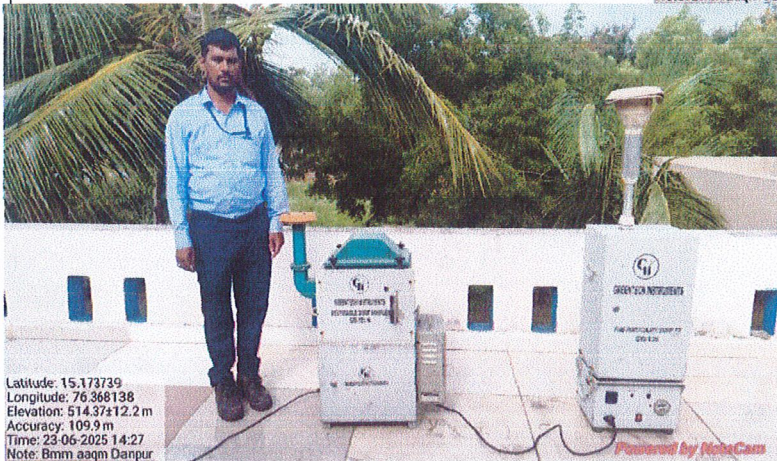


AMBIENT AIR QUALITY MONITORING STATION

Location : Danapur

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

Near VRM Hospital





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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A2-Mariyammanahalli Village
Duration of Monitoring : 24 Hour
Report Issued Date : 02.07.2025
Report Number : ULR-TC1618025000000722F

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
02.06.2025	03.06.2025	1558	48.55	100	14.38	60	9.27	80	12.31	80
03.06.2025	04.06.2025	1596	47.70		16.14		10.02		11.23	
12.06.2025	13.06.2025	1921	40.93		9.52		9.65		10.74	
13.06.2025	14.06.2025	1966	43.86		14.77		11.11		13.23	
17.06.2025	18.06.2025	2066	57.40		16.83		10.60		12.59	
18.06.2025	19.06.2025	2115	44.11		11.55		8.24		12.18	
23.06.2025	24.06.2025	2243	52.48		14.28		11.86		14.43	
24.06.2025	25.06.2025	2300	44.78		11.29		8.09		11.33	
Average			47.48		13.60		9.86		12.25	

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	08.07.2024	25.04.2025
5	Calibration Due Date	07.07.2025	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****

Brundha.B
Analysed By
Brundha.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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- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey
- 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysis or documentation



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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : JUNE-2025
 Location : A2-Mariyammanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/722

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1558	0.10	4.0
2	03.06.2025	1596	<0.01	
3	12.06.2025	1921	<0.01	
4	13.06.2025	1966	0.12	
5	17.06.2025	2066	<0.01	
6	18.06.2025	2115	<0.01	
7	23.06.2025	2243	0.10	
8	24.06.2025	2300	<0.01	

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

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

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

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



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

AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

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



Latitude: 15.163269
Longitude: 76.356176
Elevation: 531.57±35.9 m
Accuracy: 12.5 m
Time: 02-06-2025 07:07
Note: Brmn Aqmn mariyammanahalli

Powered by NoteCam



Latitude: 15.163225
Longitude: 76.356149
Elevation: 531.57±41.7 m
Accuracy: 15.63 m
Time: 03-06-2025 07:22
Note: Brmn Aqmn mariyammanahalli

Powered by NoteCam



Latitude: 15.163235
Longitude: 76.356145
Elevation: 531.17±26.7 m
Accuracy: 1.1 m
Time: 12-06-2025 18:15
Note: Brmn Aqmn Mariyammanahalli

Powered by NoteCam



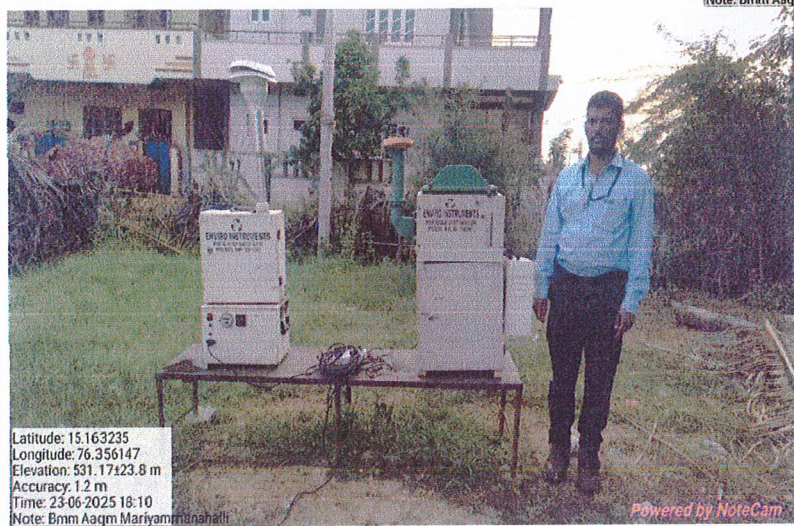
Latitude: 15.163214
Longitude: 76.356124
Elevation: 531.17±21.2 m
Accuracy: 3.0 m
Time: 13-06-2025 18:22
Note: Brmn Aqmn Mariyammanahalli

Powered by NoteCam

AMBIENT AIR QUALITY MONITORING STATION

Location : Mariyammana Halli

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





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Website : www.gemslp.in



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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A3-Hanumanahalli Village
Duration of Monitoring : 24 Hour
Report Issued Date : 02.07.2025
Report Number : ULR-TC1618025000000721F

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
02.06.2025	03.06.2025	1557	47.70	100	16.18	60	11.17	80	14.62	80
03.06.2025	04.06.2025	1595	52.22		12.17		13.12		15.09	
12.06.2025	13.06.2025	1920	35.69		10.64		10.27		12.88	
13.06.2025	14.06.2025	1965	43.65		15.87		9.49		10.99	
17.06.2025	18.06.2025	2065	41.31		11.54		9.70		12.07	
18.06.2025	19.06.2025	2114	33.83		17.17		10.90		14.27	
23.06.2025	24.06.2025	2242	46.05		13.73		9.78		12.62	
24.06.2025	25.06.2025	2299	45.95		19.44		13.22		15.57	
Average			43.30		14.59		10.96		13.52	

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	24.04.2025	24.04.2026

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey
- 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysis or documentation



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyzer
 Month : JUNE-2025
 Location : A3-Hanumanahalli Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/721

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1557	<0.01	4.0
2	03.06.2025	1595	0.12	
3	12.06.2025	1920	<0.01	
4	13.06.2025	1965	<0.01	
5	17.06.2025	2065	<0.01	
6	18.06.2025	2114	0.10	
7	23.06.2025	2242	<0.01	
8	24.06.2025	2299	<0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025
INFERENCE		As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit

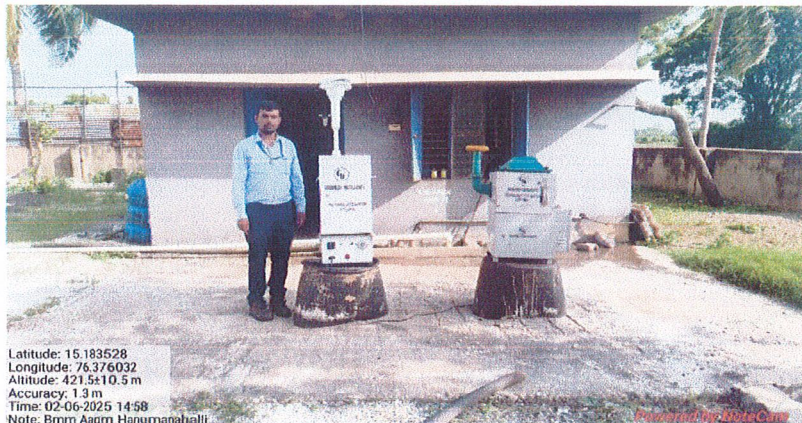
B. S. B.
 Analysed By
 Brunda B
 Chemist

run
 Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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

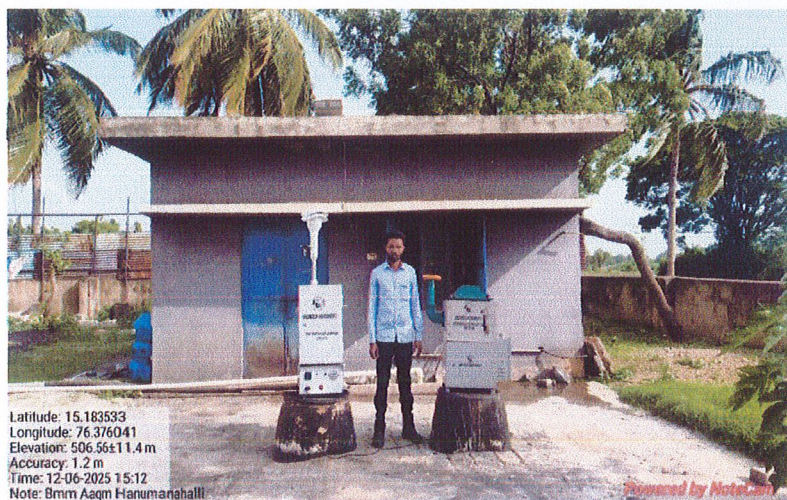
AMBIENT AIR QUALITY MONITORING STATION
Location: Hanumanahalli
Address: BMM OHC Hospital Hanumanahalli Near STP



Latitude: 15.183528
Longitude: 76.376032
Altitude: 421.5±10.5 m
Accuracy: 1.3 m
Time: 02-06-2025 14:58
Note: Bmm Aqgm Hanumanahalli



Latitude: 15.18352
Longitude: 76.376015
Elevation: 507.06±11.1 m
Accuracy: 1.3 m
Time: 03-06-2025 15:03
Note: Bmm Aqgm Hanumanahalli

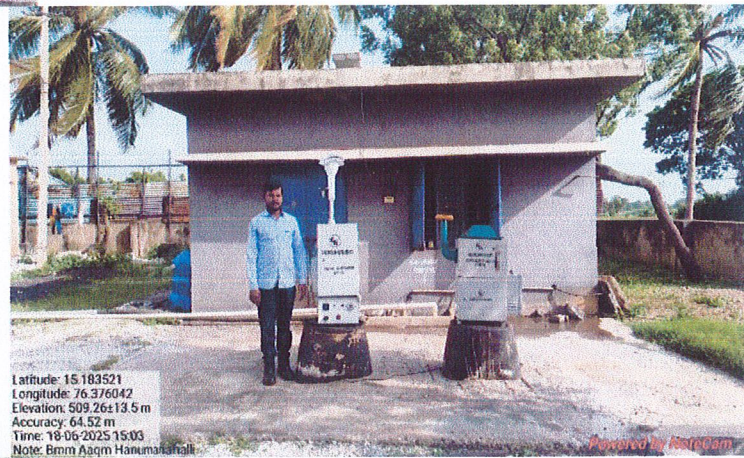


Latitude: 15.183533
Longitude: 76.376041
Elevation: 506.56±11.4 m
Accuracy: 1.2 m
Time: 12-06-2025 15:12
Note: Bmm Aqgm Hanumanahalli



Latitude: 15.183527
Longitude: 76.376045
Elevation: 503.56±10.7 m
Accuracy: 137.8 m
Time: 13-06-2025 15:21
Note: Bmm Aqgm Hanumanahalli

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





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e-mail : gems_hpt@yahoo.com
Website : www.gemslp.in



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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A4-Galemmanagudi Village
Duration of Monitoring : 24 Hour
Report Issue Date : 02.07.2025
Report Number : ULR-TC1618025000000723F

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
02.06.2025	03.06.2025	1559	35.49	100	13.89	60	9.54	80	15.87	80
03.06.2025	04.06.2025	1597	39.22		20.30		12.78		16.03	
12.06.2025	13.06.2025	1922	33.04		9.08		12.96		17.71	
13.06.2025	14.06.2025	1967	34.92		14.57		14.51		19.42	
17.06.2025	18.06.2025	2067	39.55		16.53		12.64		15.49	
18.06.2025	19.06.2025	2116	40.53		19.10		15.66		18.54	
23.06.2025	24.06.2025	2244	38.66		20.03		13.77		15.96	
24.06.2025	25.06.2025	2301	46.22		14.97		17.77		21.11	
Average			38.45		16.06		13.70		17.52	

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	08.07.2024	25.04.2025
5	Calibration Due Date	07.07.2025	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:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : JUNE-2025
 Location : A4-Galemmanagudi Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMM/NAAQ/2025-26/723

RESULTS


Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1559	0.14	4.0
2	03.06.2025	1597	0.10	
3	12.06.2025	1922	0.12	
4	13.06.2025	1967	<0.01	
5	17.06.2025	2067	<0.01	
6	18.06.2025	2116	<0.01	
7	23.06.2025	2244	<0.01	
8	24.06.2025	2301	<0.01	


Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

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


 Analysed By
 Brunda B
 Chemist


 Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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

AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

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

Tq: Hospet Di: Vijayanagara

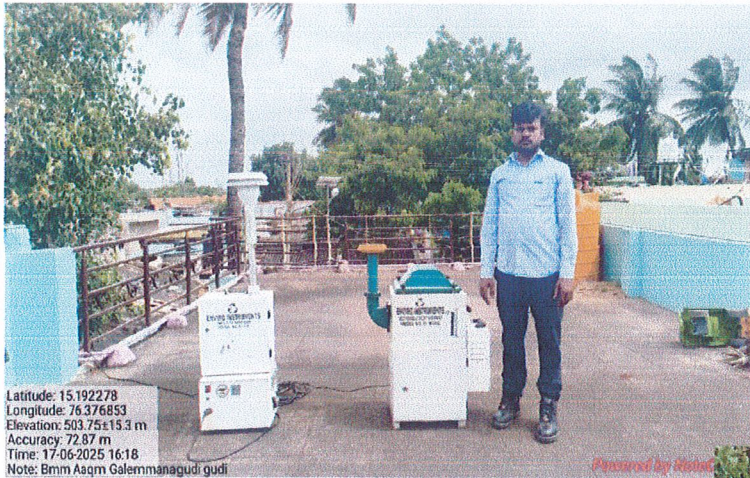


AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

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

Tq: Hospet Di: Vijayanagara





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Website : www.gemslp.in



TC-16180

ANNEXURE-05
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A5-G Nagalapura Village
Duration of Monitoring : 24 Hour
Report Issue Date : 02.07.2025
Report Number : ULR-TC1618025000000724F

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
02.06.2025	03.06.2025	1560	36.83	100	12.81	60	8.47	80	11.00	80
03.06.2025	04.06.2025	1598	40.52		10.14		10.89		13.89	
12.06.2025	13.06.2025	1923	30.56		6.47		8.96		10.11	
13.06.2025	14.06.2025	1968	32.63		9.30		9.43		12.41	
17.06.2025	18.06.2025	2068	34.64		11.86		13.11		13.89	
18.06.2025	19.06.2025	2117	43.46		10.04		9.69		14.34	
23.06.2025	24.06.2025	2245	30.56		10.84		8.59		10.37	
24.06.2025	25.06.2025	2302	38.81		13.11		9.42		11.07	
Average			36.00		10.57		9.82		12.14	

SL NO	INSTRUMENT DETAILS		
1	Instrument Name	Respirable Dust Sampler (RDS)	Fine Particulate Sampler (FPS)
2	Make & Model	Enviro instruments / EI-142 NL	Enviro instruments / EI-133 MINI
3	Serial No	R.D.S. / 198-C-21	PM2.5 / PM10 Sampler / 527-F-2024
4	Calibration Date	08.07.2024	23.09.2024
5	Calibration Due Date	07.07.2025	22.09.2025

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-05
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : JUNE-2025
 Location : A5- G Nagalapura Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/724

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1560	<0.01	4.0
2	03.06.2025	1598	<0.01	
3	12.06.2025	1923	<0.01	
4	13.06.2025	1968	<0.01	
5	17.06.2025	2068	<0.01	
6	18.06.2025	2117	<0.01	
7	23.06.2025	2245	<0.01	
8	24.06.2025	2302	<0.01	

Note: CO - GEMS/SOP/86/as per CO Analyzer Manual (1 Hour)

ND - Not Detected

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

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

Brunda B
 Analysed By
 Brunda B
 Chemist

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

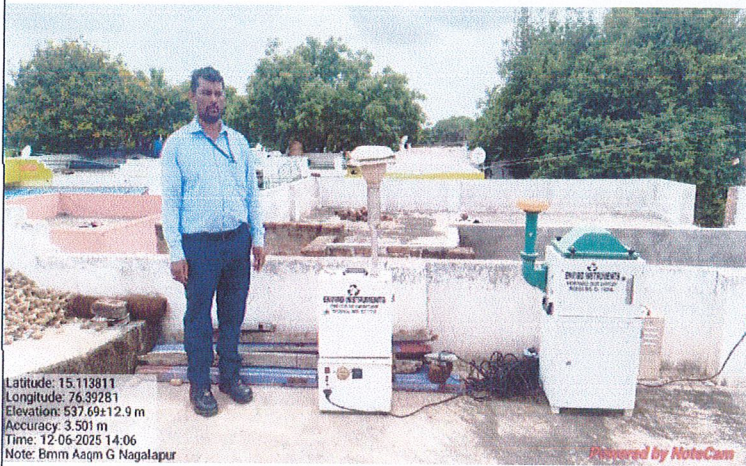


- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey

AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

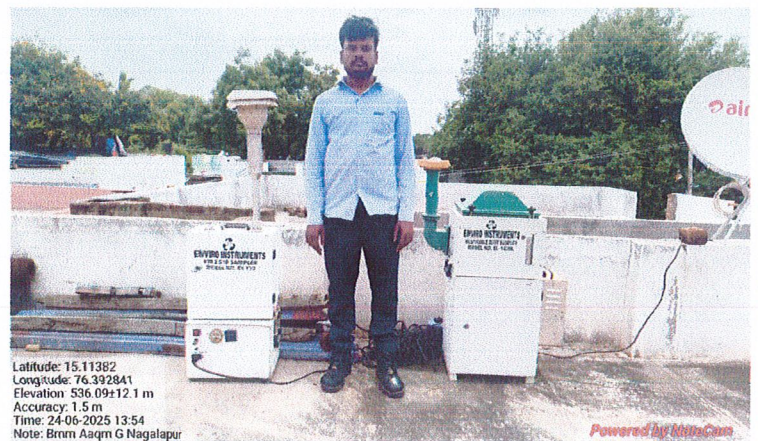
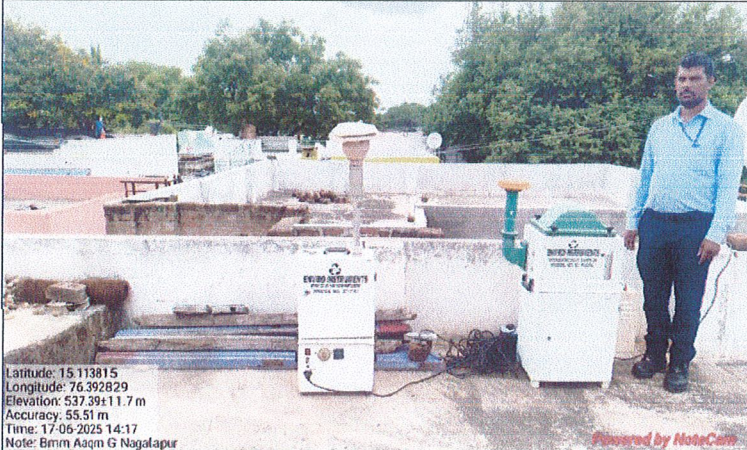
Address: B Manjunath S/o. B Hemanna G Nagalapura Hospet Tq Di : Vijayanagara Near 2nd ward Bus stand
Nagalapura



AMBIENT AIR QUALITY MONITORING STATION

Location: Nagalapura Village

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





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Website : www.gemslip.in



TC-16180

ANNEXURE-06
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : JUNE-2025
Location : A6-Gunda Tanda Village
Duration of Monitoring : 24 Hour
Report Issue Date : 02.07.2025
Report Number : ULR-TC161802500000725F

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
02.06.2025	03.06.2025	1561	37.09	100	14.05	60	8.25	80	10.17	80
03.06.2025	04.06.2025	1599	40.52		10.67		9.86		11.10	
12.06.2025	13.06.2025	1924	30.56		8.51		7.56		9.15	
13.06.2025	14.06.2025	1969	32.63		15.66		8.35		9.80	
17.06.2025	18.06.2025	2069	34.64		12.72		10.04		11.90	
18.06.2025	19.06.2025	2118	43.46		10.70		7.59		9.20	
23.06.2025	24.06.2025	2246	30.56		13.99		8.29		10.49	
24.06.2025	25.06.2025	2303	38.81		12.76		7.44		8.81	
Average			36.03		12.38		8.42		10.08	

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	08.07.2024	25.04.2025
5	Calibration Due Date	07.07.2025	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:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-06
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : CO Analyser
 Month : JUNE-2025
 Location : A6-Gunda Tanda Village
 Duration of Monitoring : 1 Hour
 Report Issued Date : 02.07.2025
 Report Number : GEMS/BMMIL/ NAAQ /2025-26/725

RESULTS

Sl. No.	Date of Sampling	Sample Code	CO (1 Hour) [mg/m ³]	Standard
1	02.06.2025	1561	<0.01	4.0
2	03.06.2025	1599	<0.01	
3	12.06.2025	1924	<0.01	
4	13.06.2025	1969	<0.01	
5	17.06.2025	2069	<0.01	
6	18.06.2025	2118	<0.01	
7	23.06.2025	2246	<0.01	
8	24.06.2025	2303	<0.01	

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

SL NO	INSTRUMENT DETAILS	
1	Instrument Name	CO Gas Detector
2	Make & Model	Vasthi Instruments Pvt Ltd & VS-70-70-CO
3	Serial No	180883821
4	Calibration Date	08.07.2024
5	Calibration Due Date	07.07.2025

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

Brunda B
 Analysed By
 Brunda B
 Chemist

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



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AMBIENT AIR QUALITY MONITORING STATION

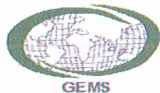
Location: BMM Quatre's
Gunda Thanda



AMBIENT AIR QUALITY MONITORING STATION

Location: BMM Quatre's
Gunda Thanda





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

FORTNIGHTLY FUGITIVE AIR QUALITY MONITORING DATA

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	JUNE-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	:	02.07.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/864

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	1784	07.06.2025	07.06.2025	763.36	2000
2.	Near Iron Ore Bottom Hopper	1785	07.06.2025	07.06.2025	771.79	2000
3.	Iron Ore Screen	1786	07.06.2025	07.06.2025	703.53	2000
II. Pellet Plant-1						
4.	Near Pellet Plant	1787	07.06.2025	07.06.2025	1820.81	2000
5.	Annual Cooler Pellet Discharge bin	1788	07.06.2025	07.06.2025	736.28	2000
6.	Pellet Stock Yard	1827	09.06.2025	10.06.2025	440.03	2000
III. Sponge Iron Division-1 (kiln 1 & 2)						
7.	Control Room SID-1	1854	10.06.2025	11.06.2025	531.04	2000
8.	Near Product bin	1855	10.06.2025	11.06.2025	820.92	2000
9.	Coal Feeding Area	1856	10.06.2025	11.06.2025	786.16	2000
IV. Induction Furnace & Rolling Mill – 1						
10.	IF Office	1826	09.06.2025	10.06.2025	591.51	2000
11.	TMT Stock Yard	1828	09.06.2025	10.06.2025	300.67	2000
12.	RML Gasifier	1829	09.06.2025	10.06.2025	735.52	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	1857	10.06.2025	11.06.2025	447.25	2000
14.	25 MW ACC	1892	11.06.2025	12.06.2025	205.80	2000
VI. Site Services						
15.	PGP- coal handling system	1830	09.06.2025	10.06.2025	561.78	2000
16.	IF Slag Crusher	1858	10.06.2025	11.06.2025	454.07	2000
17.	Main Gate	1893	11.06.2025	12.06.2025	171.41	2000
18.	Fly ash Dump	1746	06.06.2025	07.06.2025	343.50	2000

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

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

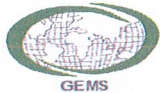
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

K. Ramakrishna Reddy
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.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	:	JUNE-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	:	02.07.2025
10	Report Number	:	GEMS/BMMIL/FM/2025-26/1053

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	2208	21.06.2025	22.06.2025	382.61	2000
2.	Near Iron Ore Bottom Hopper	2206	21.06.2025	22.06.2025	1441.25	2000
3.	Iron Ore Screen	2207	21.06.2025	22.06.2025	1317.70	2000
II. Pellet Plant-I						
4.	Near Pellet Plant	2234	23.06.2025	24.06.2025	1864.33	2000
5.	Annual Cooler Pellet Discharge bin	2235	23.06.2025	24.06.2025	1937.50	2000
6.	Pellet Stock Yard	2236	23.06.2025	24.06.2025	1925.61	2000
III. Sponge Iron Division-1(kiln 1 & 2)						
7.	Control Room SID-I	2307	25.06.2025	25.06.2025	1675.47	2000
8.	Near Product bin	2308	25.06.2025	25.06.2025	532.10	2000
9.	Coal Feeding Area	2309	25.06.2025	25.06.2025	410.75	2000
IV. Induction Furnace & Rolling Mill						
10.	IF Office	2289	24.06.2025	26.06.2025	1250.38	2000
11.	TMT Stock Yard	2290	24.06.2025	26.06.2025	539.24	2000
12.	RML Gasifier	2291	24.06.2025	26.06.2025	1880.58	2000
V. Power Plant 25 MW-1						
13.	25 MW ESP	2293	24.06.2025	25.06.2025	392.30	2000
14.	25 MW ACC	2340	26.06.2025	27.06.2025	336.26	2000
VI. Site Services						
15.	PGP- Coal handling system	2237	23.06.2025	24.06.2025	1703.41	2000
16.	IF Slag Crusher	2310	25.06.2025	26.06.2025	317.50	2000
17.	Main Gate	2341	26.06.2025	27.06.2025	309.41	2000
18.	Fly ash Dump	2181	20.06.2025	21.06.2025	1378.86	2000

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

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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ANNEXURE-09
GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	: JUNE-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	: 02.07.2025
10	Report Number	: GEMS/BMMIL/FM/2025-26/907

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	1894	11.06.2025	12.06.2025	231.19	2000
2.	Stock House	1895	11.06.2025	12.06.2025	524.83	2000
3.	Gas Network Area	1896	11.06.2025	12.06.2025	384.27	2000
4.	Blower Area	1911	12.06.2025	13.06.2025	446.43	2000
5.	Gas Cleaning plant (GCP)	1912	12.06.2025	13.06.2025	620.35	2000
6.	Stove Area	1913	12.06.2025	13.06.2025	313.08	2000
7.	Control ROOM (CR)	1914	12.06.2025	13.06.2025	238.65	2000
8.	Pig Costing Machine (PCM)	1957	13.06.2025	14.06.2025	255.07	2000
9.	Slag Granulation Plant (SGP)	1958	13.06.2025	14.06.2025	319.57	2000
10.	Cost House Area	1915	12.06.2025	13.06.2025	1337.13	2000
SMS Area						
1.	Stock House/Vibro Feeders	1959	13.06.2025	14.06.2025	1242.98	2000
2.	Laddle Tapping	1956	13.06.2025	14.06.2025	616.77	2000
3.	Slag pouring Area	1960	13.06.2025	14.06.2025	856.31	2000
MBM						
1.	Near Re-Heating Furnace	1993	14.06.2025	14.06.2025	392.77	2000

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

SL NO	INSTRUMENT DETAILS	HVS-01	HVS-02	HVS-03	HVS-04	HVS-05
1	Instrument Name	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler	High Volume Sampler
2	Make & Model	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Enviro Instruments/EI-043	Greentech/GTI-251	Greentech/GTI-251
3	Serial No	H.V.S./39-F-2024	H.V.S./40-F-2024	H.V.S./41-F-2024	460-DTF-2024	193-DTH-2019
4	Calibration Date	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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ANNEXURE-10
GEMS-LD/TF/11/01

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
5	Month	: JUNE-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	: 02.07.2025
10	Report Number	: GEMS/BMMIL/FM/2025-26/715

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)	1547	02.06.2025	03.06.2025	284.58	2000
2.	Near Cone Crusher	1549	02.06.2025	03.06.2025	663.43	2000
3.	Concentrate Thickner	1548	02.06.2025	03.06.2025	361.11	2000
II. Pellet Plant						
4.	PR-6	1550	02.06.2025	03.06.2025	381.74	2000
5.	Annual Cooler Pellet Discharge bin	1551	02.06.2025	03.06.2025	651.44	2000
6.	Additive Grinding Building	1544	02.06.2025	03.06.2025	1618.02	2000
III. Sponge Iron Division -2 (Kiln 3 & 4)						
7.	Control room	1630	04.06.2025	05.06.2025	1248.55	2000
8.	Near Weigh bridge (dispatch)	1585	03.06.2025	04.06.2025	832.47	2000
9.	Pellet Storage bin	1588	03.06.2025	04.06.2025	1719.22	2000
10.	Transfer House area	1586	03.06.2025	04.06.2025	969.73	2000
11.	Production Separation Bin-PSB	1587	03.06.2025	04.06.2025	995.45	2000
IV. Sponge Iron Division -3 (Kiln 5 & 6)						
12.	Near Control room	1631	04.06.2025	05.06.2025	1933.17	2000
13.	Near Coal Crusher	1633	04.06.2025	06.06.2025	1834.99	2000
14.	Near Product bin	1632	04.06.2025	05.06.2025	1052.50	2000
15.	Coal Dryer	1715	05.06.2025	05.06.2025	546.53	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	1634	04.06.2025	05.06.2025	1358.70	2000
17.	Monsoon Shed (CPU)	1716	05.06.2025	06.06.2025	945.48	2000
18.	MCC Room (2 nd Gate)	1717	05.06.2025	06.06.2025	710.60	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	1718	05.06.2025	06.06.2025	376.47	2000
20.	2 nd gate weigh bridge Near Coal Screen	1747	06.06.2025	07.06.2025	1157.44	2000
21.	CFBC boiler	1719	05.06.2025	06.06.2025	934.23	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	1748	06.06.2025	07.06.2025	336.18	2000
23.	Near Coal storage Shed	1749	06.06.2025	07.06.2025	726.01	2000
24.	Dolochar Processing Area	1750	06.06.2025	07.06.2025	558.44	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
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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.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
- 5 Month : JUNE-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 : 02.07.2025
- 10 Report Number : GEMS/BMMIL/FM/2025-26/979

RESULTS

Sl. No.	Location / Plant	Sample Code	Date Of Monitoring	Date Of Sample Receipt	SPM ($\mu\text{g}/\text{m}^3$)	Standard
I. Beneficiation Plant-II						
1.	Ball Mill Area (Zero Meter)	2032	16.06.2025	17.06.2025	1837.65	2000
2.	Near Cone Crusher	2034	16.06.2025	17.06.2025	1525.76	2000
3.	Concentrate Thickner	2033	16.06.2025	17.06.2025	597.22	2000
II. Pellet Plant-I						
4.	PR-6	2035	16.06.2025	17.06.2025	517.07	2000
5.	Annual Cooler Pellet Discharge bin	2036	16.06.2025	17.06.2025	1799.78	2000
6.	Additive Grinding Building	2055	17.06.2025	18.06.2025	580.02	2000
III. Sponge Iron Division -2 (Kiln 3&4)						
7.	Control room	2056	17.06.2025	18.06.2025	1923.62	2000
8.	Near Weigh bridge (dispatch)	2102	18.06.2025	19.06.2025	977.55	2000
9.	Pellet Storage bin	2059	17.06.2025	18.06.2025	899.67	2000
10.	Transfer House area	2057	17.06.2025	18.06.2025	939.25	2000
11.	Production Separation Bin-PSB	2058	17.06.2025	18.06.2025	922.15	2000
IV. Sponge Iron Division -2 (Kiln 5&6)						
12.	Near Control room	2103	18.06.2025	19.06.2025	799.53	2000
13.	Near Coal Crusher	2105	18.06.2025	19.06.2025	1296.67	2000
14.	Near Product bin	2104	18.06.2025	19.06.2025	1752.44	2000
15.	Coal Drier	2141	19.06.2025	20.06.2025	658.80	2000
V. Wagon Tipper/RMHS						
16.	Near Tipping point	2106	18.06.2025	19.08.2025	1166.80	2000
17.	Monsoon Shed (CPU)	2142	19.06.2025	20.06.2025	901.79	2000
18.	MCC Room (2 nd Gate)	2143	19.06.2025	20.06.2025	812.70	2000
VI. Power Plant-70 MW						
19.	70MW-DM Plant (Near R.O. Plant)	2144	19.06.2025	20.06.2025	365.92	2000
20.	2 nd gate weigh bridge Near Coal Screen	2182	20.06.2025	21.06.2025	1048.54	2000
21.	CFBC boiler	2145	19.06.2025	20.06.2025	597.42	2000
VII. 2X70MW Power Plant						
22.	Near Boiler	2183	20.06.2025	21.06.2025	955.63	2000
23.	Near Coal storage Shed	2184	20.06.2025	21.06.2025	604.45	2000
24.	CPP Dolochar Process Area	2185	20.06.2025	21.06.2025	604.49	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. S. B.
Analysed By

Brunda.B
Chemist

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



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

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : HVS Sampler (HVS-01, HVS-02, HVS-03, HVS-04, HVS-05)
- 5 Month : JUNE-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 : 02.07.2025
- 10 Report Number : GEMS/BMMIL/FM/2025-26/1112

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	2343	26.06.2025	27.06.2025	298.90	2000
2.	Stock House	2342	26.06.2025	27.06.2025	307.68	2000
3.	Gas Network Area	2376	27.06.2025	28.06.2025	1862.21	2000
4.	Blower Area	2377	27.06.2025	28.06.2025	1010.13	2000
5.	Gas Cleaning plant (GCP)	2378	27.06.2025	28.06.2025	1519.75	2000
6.	Stove Area	2379	27.06.2025	28.06.2025	1737.42	2000
7.	Control ROOM (CR)	2406	28.06.2025	29.06.2025	663.63	2000
8.	Pig Costing Machine (PCM)	2407	28.06.2025	29.06.2025	370.86	2000
9.	Slag Granulation Plant (SGP)	2408	28.06.2025	29.06.2025	653.06	2000
10.	Cost House Area	2409	28.06.2025	29.06.2025	1378.35	2000
SMS Area						
1.	Stock House/Vibro Feeders	2414	30.06.2025	30.06.2025	1868.18	2000
2.	Ladle Tapping	2415	30.06.2025	30.06.2025	431.91	2000
3.	Slag pouring Area	2416	30.06.2025	30.06.2025	852.56	2000
MBM						
1.	Near Re-Heating Furnace	2417	30.06.2025	30.06.2025	309.93	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. S. B.
Analysed By
Brunda.B
Chemist

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

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Website : www.gemslp.in



TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Pellet Plant-1 ESP**
- 10 Month of Sampling : **JUNE-2025**
- 11 Date of Sample Received : 03.06.2025
- 12 Date of Sample Analysis : 04.06.2025
- 13 Date of Sample Analysis completion : 04.06.2025
- 14 Report Issued Date : **02.07.2025**
- 15 Report Number : **ULR-TC161802500000742F**

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	
				03.06.2025	17.06.2025	
	Date of Monitoring			1590	2060	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	61	59	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.39	5.46	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	295270	299065	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	263306	267520	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	32.94	28.96	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	196	168	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	29	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.012	0.009	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:

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



ANNEXURE-14
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: 2X100 TPD Sponge iron plant Kiln 1 & 2
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 10.06.2025&25.06.2025
12	Date of Sample Analysis	: 11.06.2025&26.06.2025
13	Date of Sample Analysis completion	: 11.06.2025&26.06.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000891F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1st Fort Night	2nd Fort Night	
				10.06.2025	25.06.2025	
	Date of Monitoring Sample Code			1860	2314	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	168	174	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.40	6.75	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	72413	76361	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	48719	50626	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	18.33	15.49	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	273	286	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	52	54	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.138	0.126	1

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

****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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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025 (1st Fort Night)
- 10 Date of Sample Received : 12.06.2025
- 11 Date of Sample Analysis : 13.06.2025
- 12 Date of Sample Analysis completion : 13.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000914F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/N m ³
Induction Furnace 1 & 2											
1	Induction Furnace 1	12.06.2025	1917	Electric Power	28	38	4.48	30	1.2	5.00	150
2	Induction Furnace 2	12.06.2025	1918		29	42	4.22	30	1.3	9.83	150

Sl. No	Induction Furnace 1 & 2	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Induction Furnace 1	18239	17396	-
2	Induction Furnace 2	20156	18968	-

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

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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 Website : www.gemslip.in



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

Analysis Report of Stack Emission

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District
2	Customer Reference	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	:	Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	Rolling Mill Reheating furnace
10	Month of Sampling	:	JUNE-2025
11	Date of Sample Received	:	09.06.2025&28.06.2025
12	Date of Sample Analysis	:	10.06.2025&30.06.2025
13	Date of Sample Analysis completion	:	10.06.2025&30.06.2025
14	Report Issued Date	:	02.07.2025
15	Report Number	:	ULR-TC1618025000000884F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
	Date of Monitoring Sample Code			09.06.2025	28.06.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	188	172	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.92	6.56	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	12532	11869	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	8096	7921	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	37.79	35.11	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	42	38	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	264	234	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.056	0.061	1

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

****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-17

GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District
2	Customer Reference	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	:	Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	AFBC Boiler ESP (25 MW Power Plant)
10	Month of Sampling	:	JUNE-2025
11	Date of Sample Received	:	-
12	Date of Sample Analysis	:	-
13	Date of Sample Analysis completion	:	-
14	Report Issued Date	:	02.07.2025
15	Report Number	:	-

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				-	-	
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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Website : www.gemslp.in



ANNEXURE-18
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025 (1st Fort Night)
- 10 Date of Sample Received : 04.06.2025
- 11 Date of Sample Analysis : 05.06.2025
- 12 Date of Sample Analysis completion : 05.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000772F

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	04.06.2025	1638	-	29	34	4.18	30	0.4	6.35	50
2	Iron Ore Screen bin	04.06.2025	1639	-	30	35	4.77	30	0.4	15.53	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 dump hopper	1891	1826	-
2	Iron Ore Screen bin	2159	2077	-

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****

By
Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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e-mail : gems_hpt@yahoo.com
Website : www.gemslp.in



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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **JUNE-2025 (1st Fort Night)**
- 10 Date of Sample Received : 13.06.2025
- 11 Date of Sample Analysis : 14.06.2025
- 12 Date of Sample Analysis completion : 14.06.2025
- 13 Report Issued Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000000932F**

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)	13.06.2025	1962	-	30	38	4.53	35	1.5	32.48	50
4	Main Crusher	13.06.2025	1963	-	30	34	4.33	25	0.5	10.52	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)	28842	27396	-
4	Main Crusher	3059	2942	-

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****

Brundab
Analysed By
Brundab
Chemist

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



Note:

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **JUNE-2025(1st Fort Night)**
- 10 Date of Sample Received : 03.06.2025&04.06.2025
- 11 Date of Sample Analysis : 04.06.2025&05.06.2025
- 12 Date of Sample Analysis completion : 04.06.2025&05.06.2025
- 13 Report Issued Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000000742F**

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	03.06.2025	1591	-	30	35	4.35	6.5	0.50	22.32	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	03.06.2025	1592	-	33	38	4.85	3.0	0.30	20.33	50
7	Bentonite Powder bin top bag filter	03.06.2025	1593	-	32	35	4.56	3.0	0.30	25.23	50
8	H-4 Conveyor discharge bag filter	Shutdown	-	-	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	04.06.2025	1640	-	30	38	4.68	7.0	0.50	26.95	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
5	AGB Main Bag Filter	3073	2969	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1234	1177	-
7	Bentonite Powder bin top bag filter	1160	1117	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3306	3160	-

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

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

Brunda.B
Analysed By
Brunda.B
Chemist

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



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ANNEXURE-21
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **JUNE-2025(1st Fort Night)**
- 10 Date of Sample Received : 10.06.2025 & 11.06.2025
- 11 Date of Sample Analysis : 11.06.2025 & 12.06.2025
- 12 Date of Sample Analysis completion : 11.06.2025 & 12.06.2025
- 13 Report Issued Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000000892F**

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	10.06.2025	1861	---	30	35	4.52	30	1.20	24.79	50
11	Cooler-2 Discharge	10.06.2025	1862	---	32	36	4.80	30	1.20	24.45	50
12	Intermediate Bin & Blending	11.06.2025	1899	---	29	34	4.27	30	1.20	18.58	50
13	Product House	11.06.2025	1900	---	30	37	4.88	30	1.20	23.33	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	18408	17698	-
11	Cooler-2 Discharge	19527	18705	-
12	Intermediate Bin & Blending	17370	16826	-
13	Product House	19876	19013	-

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****

BA S.B
Analysed By
Brunda.B
Chemist

Signature
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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ANNEXURE-22
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **JUNE-2025 (2nd Fort Night)**
- 10 Date of Sample Received : 28.06.2025
- 11 Date of Sample Analysis : 30.06.2025
- 12 Date of Sample Analysis completion : 30.06.2025
- 13 Report Issued Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000001145F**

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	28.06.2025	2411	Electric	28	38	4.62	30	1.2	5.41	50
2	Induction Furnance 2	28.06.2025	2412	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	18797	17937	-
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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ANNEXURE-23
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Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(2nd Fort Night)
- 10 Date of Sample Received : 30.06.2025
- 11 Date of Sample Analysis : 02.07.2025
- 12 Date of Sample Analysis completion : 02.07.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000001150F

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant											
1	Iron Ore dump hopper	30.06.2025	2419	---	28	34	4.32	30	0.40	15.10	50
2	Iron Ore Screen bin	30.06.2025	2420	---	29	35	4.99	30	0.40	17.23	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	1953	1886	-
2	Iron Ore Screen bin	2256	2170	-

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

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

Brunda.B
Analysed By
Brunda.B
Chemist

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

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ANNEXURE-24
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(2nd Fort Night)
- 10 Date of Sample Received : 27.06.2025
- 11 Date of Sample Analysis : 28.06.2025
- 12 Date of Sample Analysis completion : 28.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000001129F

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)	27.06.2025	2381	-	27	34	4.33	30	1.50	12.72	50
4	Main Crusher	27.06.2025	2382	-	28	35	4.55	25	0.50	12.77	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	Screen, Coal Crusher (CPU)	27570	26621	-
4	Main Crusher	3216	3092	-

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

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

Brunda.B
Analysed By
Brunda.B
Chemist

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

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : **JUNE-2025 (2nd Fort Night)**
- 10 Date of Sample Received : 17.06.2025&18.06.2025
- 11 Date of Sample Analysis : 18.06.2025&19.06.2025
- 12 Date of Sample Analysis completion : 18.06.2025&19.06.2025
- 13 Report Issued Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000000994F**

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/N m ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant-1											
5	AGB Main Bag Filter	17.06.2025	2061	---	28	34	4.29	6.5	0.50	21.01	50
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	17.06.2025	2062	---	29	35	4.73	3.0	0.30	18.67	50
7	Bentonite Powder bin top bag filter	17.06.2025	2063	---	30	36	4.61	3.0	0.30	25.94	50
8	H-4 Conveyor discharge bag filter	-	-	---	-	-	-	7.0	0.50	-	50
9	P-1 Bag Filter	18.06.2025	2110	---	28	39	4.50	7.0	0.50	28.66	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	3030	2928	-
6	Lime Powder bin top bag Filter/ Powder Coal Main Bag Filter	1204	1158	-
7	Bentonite Powder bin top bag filter	1174	1125	-
8	H-4 Conveyor discharge bag filter	-	-	-
9	P-1 Bag Filter	3182	3026	-

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-26
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(2nd Fort Night)
- 10 Date of Sample Received : 26.06.2025&27.06.2025
- 11 Date of Sample Analysis : 27.06.2025&28.06.2025
- 12 Date of Sample Analysis completion : 27.06.2025&28.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000001113F

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	26.06.2025	2344	---	27	34	4.38	30	1.20	23.32	50
11	Cooler-2 Discharge	26.06.2025	2345	---	28	35	4.71	30	1.20	25.09	50
12	Intermediate Bin & Blending	26.06.2025	2346	---	28	34	4.46	30	1.20	21.41	50
13	Product House	27.06.2025	2383	---	26	33	4.64	30	1.20	23.89	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	17837	17205	-
11	Cooler-2 Discharge	19172	18398	-
12	Intermediate Bin & Blending	18161	17473	-
13	Product House	18904	18330	-

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

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

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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TC-16180

ANNEXURE-27
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Pellet Plant-2 ESP
- 10 Month of Sampling : JUNE-2025
- 11 Date of Sample Received : 02.06.2025 & 16.06.2025
- 12 Date of Sample Analysis : 03.06.2025 & 17.06.2025
- 13 Date Sample Analysis Completion : 03.06.2025 & 17.06.2025
- 14 Report Issued Date : 02.07.2025
- 15 Report Number : ULR-TC1618025000000716F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
				02.06.2025	16.06.2025	
	Date of Monitoring					
	Sample Code			1552	2037	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	69	64	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.31	5.20	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	290967	284713	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	252932	250505	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	30.14	32.27	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	275	217	NS
8	Nitrogen Dioxide	IS: 11255 (Part 7): 2005 (RA 2017)	mg/Nm ³	82	69	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.019	0.014	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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6. Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey
7. 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysts or documentation



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Website : www.gemslp.in



TC-16180

ANNEXURE-28
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **SID Axis 3&4**
- 10 Month of Sampling : **JUNE-2025**
- 11 Date of Sample Received : 04.06.2025&18.06.2025
- 12 Date of Sample Analysis : 05.06.2025&19.06.2025
- 13 Date Sample Analysis Completion : 05.06.2025&19.06.2025
- 14 Report Issued Date : **02.07.2025**
- 15 Report Number : **ULR-TC1618025000000769F**

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	
	Date of Monitoring Sample Code			04.06.2025	18.06.2025	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	124	126	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.98	5.90	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	152239	150236	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	114110	111808	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	31.66	33.25	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	318	321	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005(RA 2017)	mg/Nm ³	19	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.061	0.074	1%

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

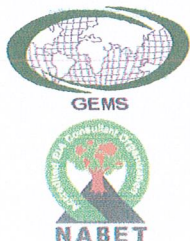
****End of the Report****

B. B.
Analysed By
Brunda.B
Chemist

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

Note:

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TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: SID Axis 5&6
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 05.06.2025&19.06.2025
12	Date of Sample Analysis	: 06.06.2025&20.06.2025
13	Date Sample Analysis Completion	: 06.06.2025&20.06.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000833F

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	
				05.06.2025	19.06.2025	
	Date of Monitoring					
	Sample Code			1720	2146	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	132	134	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.25	6.16	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	159176	156733	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	116845	114486	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	35.71	30.46	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	692	595	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	37	34	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.071	0.084	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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TC-16180

ANNEXURE-30
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : 1X70 MW-CFBC Boiler ESP
- 10 Month of Sampling : JUNE-2025
- 11 Date of Sample Received : 06.06.2025&23.06.2025
- 12 Date of Sample Analysis : 07.06.2025&24.06.2025
- 13 Date Sample Analysis Completion : 07.06.2025&24.06.2025
- 14 Report Issued Date : 02.07.2025
- 15 Report Number : ULR-TC1618025000000847F

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
				1st Fort Night	2nd Fort Night	
				06.06.2025	23.06.2025	
				1751	2233	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	116	109	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.72	5.75	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	145622	146376	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	111468	113693	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	28.47	30.41	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	86	79	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	18	21	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.029	0.033	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.gemslip.in



TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: 2X70 MW CFBC Boiler ESP
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 07.06.2025&24.06.2025
12	Date of Sample Analysis	: 09.06.2025&25.06.2025
13	Date Sample Analysis Completion	: 09.06.2025&26.06.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000865F

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result		Permissible Limit
				1 st Fort Night	2 nd Fort Night	
	Date of Monitoring			07.06.2025	24.06.2025	
	Sample Code			1789	2294	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	122	117	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.79	5.97	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	1048640	1080989	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	790710	824139	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.18	36.57	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	68	61	600
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	241	269	300
9	Carbon Monoxide	GEMS/SOP/69	%	0.021	0.027	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.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: SMS
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 11.06.2025&30.06.2025
12	Date of Sample Analysis	: 12.06.2025&02.07.2025
13	Date Sample Analysis Completion	: 12.06.2025&02.07.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000908F

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	
				11.06.2025	30.06.2025	
				1897	2418	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	28	27	-
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	6.61	6.11	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	107732	99598	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	90559	84192	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	37.01	35.28	50

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

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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TC-16180

ANNEXURE-33
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Barmill
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 12.06.2025&27.06.2025
12	Date of Sample Analysis	: 13.06.2025&28.06.2025
13	Date Sample Analysis Completion	: 13.06.2025&28.06.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000913F

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	
				12.06.2025	27.06.2025	
	Date of Monitoring					
	Sample Code			1916	2380	
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	27	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	186	148	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.92	6.52	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	176020	165816	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	114008	116583	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	30.17	27.20	50
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	367	382	NS
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	44	39	NS
9	Carbon Monoxide	GEMS/SOP/69	%	0.576	0.549	NS

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

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

B4 Q.B
Analysed By
Brunda.B
Chemist

ncn
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Blast Furnance -Stove Waste Gas
10	Month of Sampling	: JUNE-2025
11	Date of Sample Received	: 13.06.2025&26.06.2025
12	Date of Sample Analysis	: 14.06.2025&27.06.2025
13	Date Sample Analysis Completion	: 14.06.2025&27.06.2025
14	Report Issued Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000931F

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	
				13.06.2025	26.06.2025	
	Date of Monitoring			1961	2347	
	Sample Code					
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	29	26	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	167	159	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.25	6.27	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03)1985(RA 2014)	m ³ /hr	101861	102095	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr	68552	70038	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	20.55	16.81	30.0
7	Sulphur Dioxide	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	79	82	200
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	18	21	150
9	Carbon Monoxide	GEMS/SOP/69	%	0.459	0.528	<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.
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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.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(1st Fort Night)
- 10 Date of Sample Received : 11.06.2025
- 11 Date of Sample Analysis : 12.06.2025
- 12 Date Sample Analysis Completion : 12.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000909F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Beneficiation Plant-2											
1	Iron Ore Cone Crusher	Shut Down	-	---	-	-	-	30	1.20	-	50
2	Iron Ore Screening	11.06.2025	1898	---	29	33	4.20	30	0.90	17.00	50

Sl. No	Beneficiation Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
1	Iron Ore Cone Crusher	-	-	-
2	Iron Ore Screening	9630	9328	-

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****

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

K. Ramakrishna Reddy
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

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(1st Fort Night)
- 10 Date of Sample Received : 02.06.2025
- 11 Date of Sample Analysis : 03.06.2025
- 12 Date Sample Analysis Completion : 03.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000716F

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	02.06.2025	1553	---	29	35	4.48	6.5	0.5	25.75	50
4	Lime & Bentonite Powder bin top bag filter	02.06.2025	1554	---	32	36	4.42	6.5	0.5	21.81	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	02.06.2025	1555	---	33	37	4.98	20	0.5	28.76	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	3169	3058	-
4	Lime & Bentonite Powder bin top bag filter	3125	3000	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main bag filter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin bag filter	3517	3363	-

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

INFERENCE: The measured values are within the limits
End of the Report

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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5. Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
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7. 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysis or documentation



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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(1st Fort Night)
- 10 Date of Sample Received : 04.06.2025,05.06.2025,06.06.2025&07.06.2025
- 11 Date of Sample Analysis : 05.06.2025,06.06.2025,07.06.2025&09.06.2025
- 12 Date Sample Analysis Completion : 05.06.2025,06.06.2025,07.06.2025&09.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000770F

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	04.06.2025	1636	---	32	37	4.28	30	1.20	20.26	50
10	Cooler Discharge -2	04.06.2025	1637	---	33	36	4.90	30	1.20	22.74	50
11	Coal stock house	05.06.2025	1721	---	30	34	4.14	30	1.20	13.83	50
12	PSB 1 System-1	05.06.2025	1722	---	31	34	4.58	30	1.20	30.01	50
13	PSB 1 System-2	05.06.2025	1723	---	31	37	4.72	30	1.20	31.77	50
14	PSB 2 System-1 MCC	06.06.2025	1752	---	30	36	4.74	30	1.20	33.28	50
15	PSB 1 System-2 Road	06.06.2025	1753	---	31	37	4.93	30	1.20	33.88	50
16	Junction House Old & New	06.06.2025	1754	---	32	38	4.83	30	1.20	35.77	50
17	Storage Bunker	07.06.2025	1790	---	33	36	4.63	30	1.20	27.54	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	4.0178	3.9982	-
10	Cooler Discharge -2	4.0398	4.0179	-
11	Coal stock house	4.3086	4.2951	-
12	PSB 1 System-1	4.2236	4.1945	-
13	PSB 1 System-2	4.1604	4.1296	-
14	PSB 2 System-1 MCC	4.1467	4.1142	-
15	PSB 1 System-2 Road	4.0207	3.9878	-
16	Junction House Old & New	3.9999	3.9653	-
17	Storage Bunker	4.0748	4.0482	-
18	Dispatch	-	-	-

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

INFERENCE: The Measured Values are within the limits

End of the Report

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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TC-16180

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

Analysis Report of Stack Emission

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(1st Fort Night)
- 10 Date of Sample Received : 07.06.2025,09.06.2025&10.06.2025
- 11 Date of Sample Analysis : 09.06.2025,10.06.2025&11.06.2025
- 12 Date Sample Analysis Completion : 09.06.2025,10.06.2025&11.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000867F

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/s	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
2X500 TPD Sponge Iron Kiln 3&4											
19	DE 3, Axis 3 CD	07.06.2025	1791	---	34	38	4.50	30	1.20	30.46	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	09.06.2025	1831	---	29	35	5.01	30	1.20	31.34	50
21	DE 8 & 12 I-Bin, (Stand By)	09.06.2025	1832	---	30	37	5.09	30	1.90	29.57	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	09.06.2025	1833	---	29	38	4.69	30	1.90	31.83	50
23	Coal Dryer	10.06.2025	1859	---	29	39	4.65	30	1.20	35.74	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	18337	17506	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	20420	19728	-
21	DE 8 & 12 I-Bin, (Stand By)	51946	49751	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	47923	45721	-
23	Coal Dryer	18924	17987	-

INFERENCE: The Measured Values are within the limits.

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2 Sl. No: Stack Monitoring Kit/ 32308
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: JUNE-2025 (2 nd Fort Night)
10	Date of Sample Received	: 28.06.2025
11	Date of Sample Analysis	: 30.06.2025
12	Date Sample Analysis Completion	: 30.06.2025
13	Report Issued Date	: 02.07.2025
14	Report Number	: ULR-TC1618025000001144F

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	28.06.2025	2410	---	28	34	4.57	30	0.90	15.24	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	10470	10092	-

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-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.4500002990 DATED:05.05.2025
- Sample collected by : GLOBAL Environment & Mining Services
- Particulars of sample collected : Vayubodhak/ **VBSS2**
Sl. No: Stack Monitoring Kit/ **32308**
- Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- Discipline : Chemical
- Group : Atmospheric Pollution
- Sample Type : Stack Monitoring
- Month of Sampling : **JUNE-2025(2nd Fort Night)**
- Date of Sample Received : 16.06.2025
- Date of Sample Analysis : 17.06.2025
- Date Sample Analysis Completion : 17.06.2025
- Report Issued Date : **02.07.2025**
- Report Number : **ULR-TC1618025000000981F**

RESULTS

Sl. No	Stack Attached to	Date of Monitoring	Sample Code	Fuel Used	Ta °C	TS °C	V m/Sec	Height (m)	Diameter (m)	PM mg/Nm ³	KSPCB Std mg/Nm ³
Chimneys attached to Bag Filter (De dusting Units)											
Pellet Plant											
3	AGB main bag Filter	16.06.2025	2038	---	27	32	4.38	6.5	0.50	22.29	50
4	Lime & Bentonite Powder bin top bag filter	16.06.2025	2039	---	29	35	4.52	6.5	0.50	20.30	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	16.06.2025	2040	---	30	36	4.85	2.0	0.50	29.47	50

Sl. No	Pellet Plant	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
3	AGB main bag Filter	3301	3177	-
4	Lime & Bentonite Powder bin top bag filter	1587	1521	-
5	AGB De dusting Bag Filter	-	-	-
6	Powder Coal main Bagfilter	-	-	-
7	RP-6 Conveyor bag Filter	-	-	-
8	Pellet discharge bin Bagfilter	3430	3283	-

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.4500002990 DATED:05.05.2025
3	Sample collected by	: GLOBAL Environment & Mining Services
4	Particulars of sample collected	: Vayubodhak/ VBSS2
5	Instrument Details	Sl. No: Stack Monitoring Kit/ 32308 Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Month of Sampling	: JUNE-2025(2 nd Fort Night)
10	Date of Sample Received	: 18.06.2025,19.06.2025,23.06.2025&24.06.2025
11	Date of Sample Analysis	: 19.06.2025,20.06.2025,24.06.2025&25.06.2025
12	Date Sample Analysis Completion	: 19.06.2025,20.06.2025,24.06.2025&25.06.2025
13	Report Issued Date	: 02.07.2025
14	Report Number	: ULR-TC1618025000001020F

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	18.06.2025	2108	Coal	29	35	4.37	30	1.2	24.30	50
10	Cooler Discharge -2	18.06.2025	2109	Coal	30	36	5.02	30	1.2	25.65	50
11	Coal stock house	19.06.2025	2147	Coal	28	34	4.25	30	1.2	12.63	50
12	PSB 1 System-1	19.06.2025	2148	Coal	30	36	4.78	30	1.2	31.86	50
13	PSB 1 System-2	19.06.2025	2149	Coal	29	35	4.89	30	1.2	28.80	50
14	PSB 2 System-1 MCC	23.06.2025	2238	Coal	27	36	4.94	30	1.2	33.69	50
15	PSB 1 System-2 Road	23.06.2025	2239	Coal	28	34	4.67	30	1.2	32.49	50
16	Junction House Old & New	23.06.2025	2240	Coal	28	35	4.93	30	1.2	31.45	50
17	Storage Bunker	24.06.2025	2295	Coal	29	34	4.55	30	1.2	22.65	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	17804	17118	-
10	Cooler Discharge -2	20459	19591	-
11	Coal stock house	17320	16755	-
12	PSB 1 System-1	19456	18667	-
13	PSB 1 System-2	19928	19172	-
14	PSB 2 System-1 MCC	20400	19702	-
15	PSB 1 System-2 Road	20115	19353	-
16	Junction House Old & New	18772	17971	-
17	Storage Bunker	18161	17490	-
18	Dispatch	-	-	-

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

INFERENCE: The Measured Values are within the limits.

End of the Report

Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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Website : www.gemslp.in



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.4500002990 DATED:05.05.2025
- 3 Sample collected by : GLOBAL Environment & Mining Services
- 4 Particulars of sample collected : Vayubodhak/ VBSS2
Sl. No: Stack Monitoring Kit/ 32308
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Month of Sampling : JUNE-2025(2nd Fort Night)
- 10 Date of Sample Received : 24.06.2025&25.06.2025
- 11 Date of Sample Analysis : 25.06.2025&26.06.2025
- 12 Date Sample Analysis Completion : 25.06.2025&26.06.2025
- 13 Report Issued Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000001096F

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	24.06.2025	2296	---	28	35	4.31	30	1.20	28.68	50
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	24.06.2025	2297	---	36	36	4.81	30	1.20	32.28	50
21	DE 8 & 12 I-Bin, (Stand By)	25.06.2025	2311	---	29	37	4.98	30	1.90	35.73	50
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	25.06.2025	2312	---	30	37	4.51	30	1.90	37.20	50
23	Coal Dryer	25.06.2025	2313	---	29	39	4.96	30	1.20	41.24	50

Sl. No	2X500 TPD Sponge Iron Kiln 3&4	Gas flow rate at Stack Condition m ³ /hr	Gas flow rate at NTP Nm ³ /hr	KSPCB Std
19	DE 3, Axis 3 CD	18079	17390	-
20	DE 4, DE 7, DE 7A Axis 4 CD Junction House (Stand By)	19586	18771	-
21	DE 8 & 12 I-Bin, (Stand By)	51041	49267	-
22	DE 9 & 10 PSB 1 & 2 Product Separation bin	50225	48290	-
23	Coal Dryer	20808	19856	-

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

INFERENCE: The Measured Values are within the limits.

End of the Report

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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-43
GEMS-LD/TF/08/01

NOISE LEVEL MONITORING REPORT

Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Noise Level Monitoring
Particulars of Sample Collected : Lutron: SL- 4023SD
Sl. No: Q679952
Instrument Details : Date of Calibration:16.12.2024
Calibration Due Date:15.12.2025
Month : JUNE-2025
Report Issue Date : 02.07.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : ULR-TC1618025000000726F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	02.06.2025	49.6	59.0	75
2	Near ATM	02.06.2025	48.0	53.3	75
3	Transit House	03.06.2025	52.8	56.1	75
4	CAAQMS Station	03.06.2025	49.0	56.4	75
5	Gunda Road	04.06.2025	51.0	59.2	75
6	Gunda Railway Station	04.06.2025	49.2	59.6	75
7	Bagging Shed	05.06.2025	57.6	64.2	75
8	Railway Siding	05.06.2025	52.8	62.3	75
9	4th Gate	06.06.2025	48.0	57.8	75
10	Bricks Plant	06.06.2025	49.0	66.2	75
11	Kempuhalla (Wagon Tippler)	07.06.2025	50.9	59.2	75
12	Danapura Bridge	07.06.2025	62.9	69.2	75
13	2nd Gate	09.06.2025	52.9	59.0	75
14	Project Store	09.06.2025	46.9	58.6	75
15	Dispatch (Truck Parking Area)	09.06.2025	58.0	69.4	75

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

INFERENCE

As per CPCB Standards,

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

End of the Report

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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- 02.06.2025, stating that the NABL symbol was not used, and you would like that not to be considered in any related analysis or documentation



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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.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Noise Level Monitoring
Particulars of Sample Collected : Lutron: SL- 4023SD
Sl. No: Q679952
Instrument Details : Date of Calibration:16.12.2024
Calibration Due Date:15.12.2025
Month : JUNE-2025
Report Issue Date : 02.07.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : ULR-TC1618025000000984F

Sl. No	Location	Date of Monitoring	Noise Level dB (A)		
			Day Time		Standard
			Min	Max	
1	Main Gate	16.06.2025	50.2	58.0	75
2	Near ATM	16.06.2025	46.9	53.5	75
3	Transit House	17.06.2025	53.4	66.0	75
4	CAAQMS Station	17.06.2025	46.7	53.1	75
5	Gunda Road	18.06.2025	53.4	61.4	75
6	Gunda Railway Station	18.06.2025	48.2	59.6	75
7	Bagging Shed	19.06.2025	56.1	65.0	75
8	Railway Siding	19.06.2025	51.4	59.6	75
9	4th Gate	20.06.2025	51.8	61.4	75
10	Bricks Plant	20.06.2025	47.6	60.2	75
11	Kempuhalla (Wagon Tippler)	21.06.2025	51.4	57.8	75
12	Danapura Bridge	21.06.2025	59.0	64.8	75
13	2nd Gate	23.06.2025	57.6	66.8	75
14	Project Store	23.06.2025	46.0	52.8	75
15	Dispatch (Truck Parking Area)	23.06.2025	68.2	72.3	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.4500002990 DATED:05.05.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Noise Level Monitoring
Particulars of Sample Collected : Lutron: SL- 4023SD
Sl. No: Q679953
Instrument Details : Date of Calibration:16.12.2024
Calibration Due Date:15.12.2025
Month : JUNE-2025
Report Issue Date : 02.07.2025
Method Adopted : IS 9989-1981 Reaffirmed 2014
Report No : ULR-TC1618025000000729F

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	02.06.2025	48.6	54.5	51.53	55	38.8	41.6	40.72	45
2	Mariyammana Halli	03.06.2025	41.9	52.4	47.15		38.4	40.2	40.63	
3	Hanumana Halli	04.06.2025	41.5	56.2	48.81		40.2	42.2	41.34	
4	Galemmanagudi	05.06.2025	42.7	53.8	48.2		40.4	42.6	40.86	
5	G.Nagalapura Village	06.06.2025	40.9	49.3	45.1		37.6	40.4	39.24	
6	Gunda Tanda Village	07.06.2025	43.7	50.1	46.9		37.4	39.2	38.44	

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

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

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1994
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000950F

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	-	7.30	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1430	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	858	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	12.37	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	62.62	-	-
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	171.0	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	32.31	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	560.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	286.71	250max	1000 max

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TC-16180

ANNEXURE-46

14.	Fluoride as F	APHA 24th Edition 4500 F D: 2023	mg/L	0.55	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E: 2023	mg/L	15.84	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B: 2023	mg/L	430.0	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	0.13	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:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1994
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/950

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	0.02 max	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

Brunda B
Analysed By
Brunda B
Chemist

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

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



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TC-16180

ANNEXURE-47 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

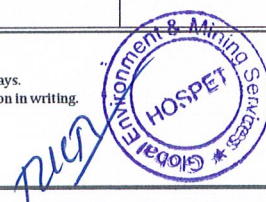
1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1996
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000952F

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	-	7.78	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2100	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1262	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	136.97	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	162.2	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	95.15	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	136.27	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	69.81	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	628.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	417.49	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	0.85	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO3 E: 2023	mg/L	14.23	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B: 2023	mg/L	500.0	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: GW2: Hanumanahalli Village. NR-No relaxation.

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

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

B. B.
Analysed By
 Brunda.B
 Chemist

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

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1996
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/952

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	0.02 max	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

Brunda B
Analysed By
Brunda B
Chemist

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



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TC-16180

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1997
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000953F

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	-	7.45	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2950	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1770	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	128.62	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	384.6	-	-
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	167.2	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	27.70	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	532.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	598.57	250max	1000 max

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TC-16180

ANNEXURE-48

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.70	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	15.24	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	510.0	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 beyond the limits.
------------------	---

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

B4 C.B
Analysed By
 Brunda.B
 Chemist

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



Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Pollution & Environment
8	Sample Type	: Ground Water
9	Sample Code	: 1997
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/953

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	0.02 max	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

Ba S-B
Analysed By
Brunda B
Chemist

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



- Recognised 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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1995
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000951F

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	-	7.89	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	2210	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1326	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	238.38	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	75.85	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	144.4	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	39.24	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	525.5	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	452.7	250max	1000 max

Note:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-49

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.17	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	13.52	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	570.0	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: 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****

B. B.
Analysed By
 Brunda.B
 Chemist

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

Note:

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Website : www.gemslip.in

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1995
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 05.06.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/951

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	0.02 max	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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Website : www.gemslip.in



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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.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1998
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000954F

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	-	7.53	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1380	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	828	500max	2000 max
4.	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
6.	Sulphate as SO ₄	APHA 24th Edition 4500 SO ₄ E: 2023	mg/L	231.43	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	169.3	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	9.5	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	64.6	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	57.70	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	399.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	90.54	250max	1000 max

Note:

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ANNEXURE-50

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.81	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	15.34	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	218	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****

BA S.B

Analysed By

Brunda.B

Chemist

K. Ramakrishna Reddy

Authorised Signatory

K. Ramakrishna Reddy

Technical Manager



Note:

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

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1998
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/954

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	0.02 max	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

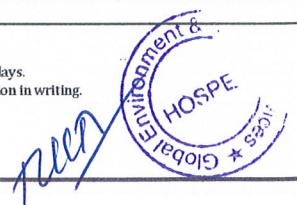
- | | | |
|----|---------------------------------|---|
| 1 | Name of the Industry | : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District. |
| 2 | Customer Reference | : WORKORDER NO.4500002990 DATED:05.05.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP |
| 4 | Particulars of sample collected | : Grab Sampling |
| 5 | Sampling Procedure | : GEMS-LD/SOP/32 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Water |
| 8 | Sample Type | : Ground Water |
| 9 | Sample Code | : 1999 |
| 10 | Date of Sampling | : 14.06.2025 |
| 11 | Sample Received | : 14.06.2025 |
| 12 | Date of Analysis | : 16.06.2025 |
| 13 | Date of Analysis Completion | : 21.06.2025 |
| 14 | Report Issue Date | : 02.07.2025 |
| 15 | Report Number | : ULR-TC1618025000000955F |

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	-	7.37	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1220	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	732.0	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	54.82	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	192.6	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	12.0	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	68.4	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	39.12	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	332.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	160.96	250max	1000 max

Note:

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TC-16180

ANNEXURE-51

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.44	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	13.68	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	270.0	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: Gunda Village. **NR**-No relaxation.

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

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

Brundha.B
Analyzed By
 Brundha.B
 Chemist

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

Note:

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical/Biological
7	Group	: Water
8	Sample Type	: Ground Water
9	Sample Code	: 1999
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: GEMS/BMMIL/GW/2025-26/955

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	0.02 max	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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Website : www.gemslip.in



TC-16180

ANNEXURE-52
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

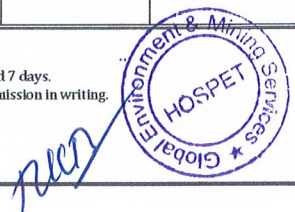
1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Grab Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Water
8	Sample Type	: RO Drinking Water
9	Sample Code	: 2000
10	Date of Sampling	: 14.06.2025
11	Sample Received	: 14.06.2025
12	Date of Analysis	: 16.06.2025
13	Date of Analysis Completion	: 21.06.2025
14	Report Issue Date	: 02.07.2025
15	Report Number	: ULR-TC1618025000000956F

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	-	6.78	6.5 to 8.5	NR
2.	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	620	-	-
3.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	372	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	142.89	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	51.30	-	-
9.	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	14.03	-	-
10.	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	19.0	75max	200max
11.	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	11.54	30max	100max
12.	Total Hardness as CaCO ₃	APHA 24th Edition 2340 C : 2023	mg/L	95.0	200max	600max
13.	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	35.21	250max	1000 max

Note:

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TC-16180

ANNEXURE-52

14.	Fluoride as F	APHA 24th Edition 4500 F D : 2023	mg/L	0.16	1 max	1.5 max
15.	Nitrate Nitrogen as NO ₃	APHA 24th Edition 4500 NO ₃ E : 2023	mg/L	0.98	45max	NR
16.	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	130.0	200max	600max
17.	Acidity as CaCO ₃	APHA 24th Edition 2310 B : 2023	mg/L	0.00	-	-
18.	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	0.07	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****

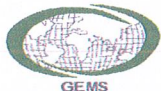
Brunda.B
Analysed By
Brunda.B
Chemist

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

Note:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in

ANNEXURE-52
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Grab Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Water
- 8 Sample Type : RO Drinking Water
- 9 Sample Code : 2000
- 10 Date of Sampling : 14.06.2025
- 11 Sample Received : 14.06.2025
- 12 Date of Analysis : 16.06.2025
- 13 Date of Analysis Completion : 21.06.2025
- 14 Report Issue Date : 02.07.2025
- 15 Report Number : GEMS/BMMIL/RO/2025-26/955

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

Note: Ab: Absent, NR: No Relaxation,

Analysed By
Brunda B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : Sewage Treatment Plant (Outlet)
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : 02.07.2025
- 14 Report Number : ULR-TC1618025000000957F

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
				Sample code			
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.63	7.78	7.35	6.5 to 8.5
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10.0	12.0	6.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	6.0	6.0	4.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	39.32	40.80	20.40	<50
5.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	8.0	4.0	6.0	10

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

STP 45 KLD - Near Fortivia

STP-1 90 KLD -Near ISP Area

STP-2 90 KLD -Near Gunda Guest House

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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ANNEXURE-53
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	:	WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Composite Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Pollution & Environment
8	Sample Type	:	Sewage Treatment Plant (Outlet)
9	Date of Sampling	:	14.06.2025
10	Sample Received	:	14.06.2025
11	Date of Analysis	:	16.06.2025
12	Date of Analysis Completion	:	21.06.2025
13	Report Issue Date	:	02.07.2025
14	Report Number	:	GEMS/BMMIL/STP/2025-26/957

Sl. No.	Parameters	Protocol	Unit	Results			As per KSPCB Std
				STP 45 KLD	STP-1 90 KLD	STP-2 90 KLD	
		Sample code	-	2001	2002	2003	
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	0.70	2.1	0.42	5
12.	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	4.16	3.84	5.32	10
13.	Fecal coliform	APHA 24th Edition 9211 B :2023	CFU/100ml	46	27	22	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

Authorized Signatory
K. Ramakrishna Reddy
Technical Manager



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TC-16180

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

Analysis Report of Water Quality Data

1	Name of the Industry	: BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
2	Customer Reference	: WORKORDER NO.4500002990 DATED:05.05.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Particulars of sample collected	: Composite Sampling
5	Sampling Procedure	: GEMS-LD/SOP/32
6	Discipline	: Chemical
7	Group	: Pollution & Environment
8	Sample Type	: Waste Water
9	Date of Sampling	: 14.06.2025
10	Sample Received	: 14.06.2025
11	Date of Analysis	: 16.06.2025
12	Date of Analysis Completion	: 21.06.2025
13	Report Issue Date	: 02.07.2025
14	Report Number	: ULR-TC1618025000000960F

Results

Sl. No.	Parameters	Protocol	Unit	Results		As per KSPCB Std
				Neutralization Pit 70 MW Power Plant	Neutralization Pit 2x70 MW Power Plant	
				Sample Code		
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.37	7.92	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	34.0	12.0	100
3.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	157.24	117.93	250
4.	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	8.0	6.0	10

Note: BDL-Below detectable Limit.

INFERENCE: The Measured values are within the Limit.

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

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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TC-16180

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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : **02.07.2025**
- 14 Report Number : **ULR-TC161802500000962F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
			Sample code	2006	2007	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.73	7.95	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	0.78	0.65	1.3

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

Brunda.B
Analysed By
Brunda.B
Chemist

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



Note:

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


Analysis Report of Water Quality Data


- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : **02.07.2025**
14. Report Number : **GEMS/SW/2025-26/962**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				Danayakanakere Upstream	Danayakanakere Downstream	
		Sample code		2006	2007	
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	5.8	5.6	>5.0
6	Color	APHA 24th Edition -2120 C:2023	Hazen	15	15	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C 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	220	280	500
	<i>Escherichia coli</i> or <i>E. coli</i>	IS : 1622:1981	MPN/100 ml	Absent	Absent	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.


Analysed By
 Brunda B
 Chemist


Authorised Signatory
 K. Ramakrishna Reddy
 Technical Manager



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TC-16180

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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : **02.07.2025**
- 14 Report Number : **ULR-TC1618025000000965F**

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
Sample code				2008	2009	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.73	7.86	6.5-8.5
2.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	0.00	0.00	3.0
3.	Fluorides as F	APHA 24thEditin 4500 F D : 2023	mg/L	0.27	0.16	1.5

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

Analysed By
Brunda.B
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : 02.07.2025
- 14 Report Number : GEMS/SW/2025-26/965

Sl. No.	Parameters	Protocol	Unit	Results		IS 2296 - 1982 CLASS -B
				KempuHalla Upstream	KempuHalla Downstream	
Sample code				2008	2009	
4	Arsenic as As	APHA 24thEdition3114- B : 2023	mg/L	<0.1	<0.1	0.2
5	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	5.8	5.6	>5.0
6	Color	APHA 24th Editon -2120 C:2023	Hazen	40	40	300
7	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	BDL	0.05
8	Phenolic Compounds (as C ₆ H ₅ OH)	IS:3025 (part 43)-1992, RA-2014, Chloroform extraction method	mg/L	BDL	BDL	0.005
9	Chromium (as Cr ⁶⁺)	APHA 24th Editon 3500 Cr-B:2023	mg/L	<0.001	<0.001	1.0
10	Total Coliform Organisms					
	Total Coli forms	IS : 1622:1981	MPN/ 100 ml	100	120	500
	Escherichia coli or E. coli	IS : 1622:1981	MPN/ 100 ml	Absent	Absent	-

Note: BDL-Below detectable Limit

INFERENCE: The measured values are within the Limit.

Brunda B
Analysed By
Brunda B
Chemist

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



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

Analysis Report of Surface Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : **02.07.2025**
- 14 Report Number : **ULR-TC161802500000967F**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
			Sample Code	2010	
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.81	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	0.46	1.5
4.	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	474	-
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.

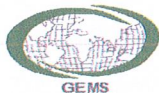
****End of the Report****

Brunda.B
Analysed By
Brunda.B
Chemist

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

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

Analysis Report of Water Quality Data

- 1 Name of the Industry : BMM Ispat Ltd., Danapur, Hosapete Taluk, Vijayanagara District.
- 2 Customer Reference : WORKORDER NO.4500002990 DATED:05.05.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical/Biological
- 7 Group : Pollution & Environment
- 8 Sample Type : **Surface Water**
- 9 Date of Sampling : 14.06.2025
- 10 Sample Received : 14.06.2025
- 11 Date of Analysis : 16.06.2025
- 12 Date of Analysis Completion : 21.06.2025
- 13 Report Issue Date : **02.07.2025**
- 14 Report Number : **GEMS/SW/2025-26/967**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296 -1982 CLASS -B
				Tungabhadra dam	
			Sample Code	6947	
6.	Color	APHA 24th Edition -2120 C:2023	Hazen	5	300
7.	Arsenic as As	APHA 24th Edition 3114- B : 2023	mg/L	BDL	0.2
8.	Dissolved Oxygen	APHA 24th Edition 4500 O C:2023	mg/L	5.6	>5.0
9.	Cyanides (as CN)	APHA 24th Edition 4500 CN -D : 2023	mg/L	BDL	0.05
10.	Phenolic Compounds (as C 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 Edition 3500 Cr-B:2023	mg/L	BDL	1.0
12.	Total Coliform Organisms,				
	Total Coli forms	IS :1622:1981	MPN/100 ml	110	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.

B. B.
Analysed By
Brunda B
Chemist

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

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