OIC

BMM®
POTENTIAL IN TONNES

No. BMM/ENV/2020-21/13

To,

Date: 12.06.2020

Environmental Officer
KSPCB Regional Office,
Sy No.597P, Ward No.15,
4th Main, Near Dr.Vishnuvardhana Park,
Kuvempunagara,
Ballari-583104

Dear Sir,

Sub: Submission of Monthly Environmental monitoring report of **M/s. BMM Ispat Ltd, Danapura Village**, Hospet Taluk, Bellary District-reg.

With respect to the above subject, we here by submitting the **Stage-II** Monthly Environmental monitoring report for the month of **May-2020** The monitoring was carried out as per the CFO issued from your kind office.

Combined Consent Order No. AW-303321 dated: 08.08.2017. (Renewed & Valid up to 30.06.2022).

Thanking You,

Yours faithfully,
for M/s. **BMM Ispat Ltd.**

13/6/2020
Authorized Signatory

Enclosure: Monitoring report for BMM Stage-II units commissioned under 2MTPA for the month of **May-2020**.

BMM Ispat Ltd.,

ENVIRONMENTAL MONITORING REPORT

Danapur Village, Hospet Taluk,
Bellary District, PIN-583222, Karnataka.

Stage 2 Units

MAY-2020

Prepared by

GLOBAL ENVIRONMENT & MINING SERVICES
NABL & MOEFCC Recognized Laboratory
(Consulting Engineers, Mine Designers, Geologists & Surveyors)

3rd main road, Basaveswara badavane
HOSAPETE – 583201, Dist., Ballari (Karnataka)

Tel : 0 8394 229433 & 295018
e-mail : gems_hpt@yahoo.com
Website : www.globalmining.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, HOSPET*, to carry out the environmental pollution monitoring on AAQ Monitoring, Fugitive monitoring within the plant, Stack monitoring & Personal Dust Sampling pollution and submit the same to the Pollution Control Board.

Accordingly, *M/s. Global Environment & Mining Services, HOSPET*, 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

Place: Hosapete
Date: 04.06.2020

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 Udaichand 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. It is this human potential that 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 Endeavours.

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, Danapura
Hosapete - 583 222
Bellary 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 Danapura 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 (Vidyanagar).

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	3.40 MTPA
2	Palletizing Plant	1.20 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 Structurals/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

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 **MAY-2020**. The Parameters monitored are:

- ❖ Fugitive Dust Level
- ❖ Stack Emission

Important Note: *Ambient Air Quality & Water Quality data are common for both Stage-I & Stage-II. Hence, Please refers Stage-I report for the same.*

1.5 Study:

The data collection programmed is given below:

1.6 Fugitive Emission Monitoring

Ambient Air Quality was monitored 48 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 air quality status given in ***Annexure – 1/A (1 st Fort night) &Annexure – 1/B(2nd Fort night)*** **.**

1.7 Stack Monitoring

Vayubhodhan Stack sampler VSS1 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, and the results given in ***Annexure – 2/A*** *(1st Fort night)* ***& Annexure – 2/B*** *(2nd Fort night)*

1.8 Stack Emissions Monitoring Methodology

1.9 Sampling Procedure

Pre Sampling Activities

Weigh the properly conditioned thimble/filter and place it into the clean, air tight Container. Designate appropriate label or ID No. to each thimble/filter container. Particulate matter emission of "Stack Monitoring – Material and Methodology for is kinetic Sampling.

Field activity starts with the collection of detailed information from the industry about the products, raw materials, fuels, and stack dimensions.

1.10 Traverse Point Calculation

Calculate the traverse point and accordingly mark the distance from tip of the Nozzle, on Pitot tube and probe. Do not forget to add the collar length of port to the

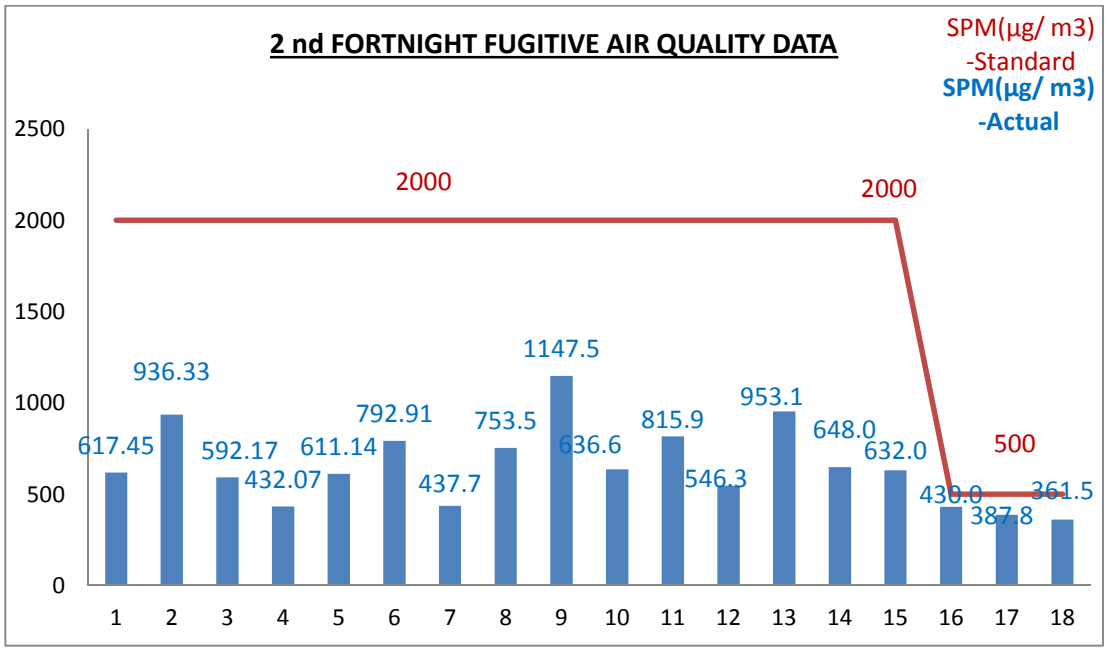
calculated traverses. For detailed calculation of "Stack Monitoring– Material and Methodology for isokinetic sampling.

1.11 Determination of Dust Concentration

Determine the mass of dust collected in the thimble by difference i.e. weighing the thimble before and after the run. Dry the thimble in an oven for about 2 hours at 120°C prior to sampling. After sampling, cool, dry and again weigh the thimble along with dust maintaining the same condition as prior to sampling.

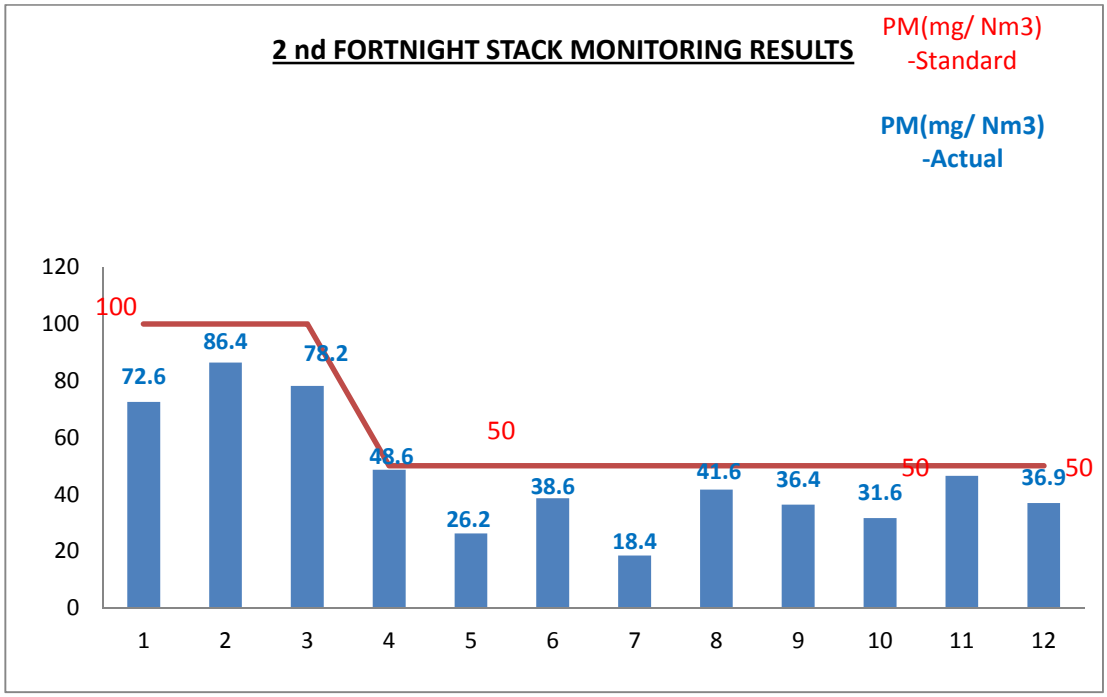
1.12 Fortnightly fugitive air quality was monitored all plant area SPM value minimum **361.46 µg/m³**, maximum value **1147.51 µg/m³**,and average value **651.78 µg/m³**. The Fugitive Monitoring results 2nd Fortnight is mentioned in graph.

1ST FORTNIGHT FUGITIVE MONITORING COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)



1.13 Stack emission level was monitored all chimneys' PM values (mg/Nm³) 1st and 2nd Fort Night Minimum Value **16.9** mg/Nm³, Maximum Value **91.8** mg/Nm³ & Average Value **48.77** mg/Nm³. The Stack monitoring results of 2nd Fortnight is mentioned in graph.

1ST FORTNIGHT STACK MONITOIRNG COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)



1.14 Conclusion

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

Annexure-1/A (1st Fort Night)

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING MAY- 2020

1. Name of the Industry : BMM Ispat Ltd., Danapur, Hospet Taluk, Bellary District.
2. Sample collected by : GLOBAL Environment & Mining Services, Hospet.
3. Particulars of sample collected : RDS Sampler (**GTI-151**) (**GEMS-01, GEMS-02,GEMS-03,)Calibration Date: 21.03.2020)**
4. Report to be sent : **04.06.2020**
5. Method adopted : IS 5182 (Part 4) : 1999 RA 2014

Sl.N0.	Location / Plant	Date Of Monitoring	Date Of Sample Receipt	SPM* (µg/m³)	Standard
I. Beneficiation Plant-II					
1.	Ball Mill Area (Zero Meter)				**2000**
2.	Iron Ore Hopper (Near Monsoon Shed)				**2000**
3.	Concentrate Thickner				**2000**
II. Pellet Plant-II					
4.	PR-6				**2000**
5.	Annual Cooler				**2000**
6.	Additive Grinding Building				**2000**
III. Sponge Iron Division -2 (Kiln 1 & 2)					
7.	Control room				**2000**
8.	Near Weigh bridge (dispatch)				**2000**
9.	Pellet Storage bin				**2000**
IV. Sponge Iron Division -2 (Kiln 3 & 4)		**MONITORING COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)**			
10.	Near Control room				**2000**
11.	Near Coal crusher				**2000**
12.	Near Product bin				**2000**
V. Wagon Tipper/RMHS					
13.	Near Tipping point				**2000**
14.	Monsoon Shed (CPU)				**2000**
15.	MCC Room(2nd Gate)				**2000**
VI. Power Plant-70 MW					
16.	70MW-DM Plant (Near R.O. Plant)				**500**
17.	Coal Screen (near gate weigh bridge)				**500**
18.	CFBC boiler				**500**

Note: SPM - Suspended Particulate matter (µg/m³) **INFERENCE:** The Measured Values are within the limits

Authorised Signatory
Technical Manager
K.Ramakrishna Reddy

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Samples will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
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4. Total liability of our laboratory is limited amount. Any dispute arising out of this report is subject to Hospet jurisdiction only.

Annexure-1/B (2nd Fort Night)

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING MAY- 2020

1. Name of the Industry : BMM Ispat Ltd., Danapur, Hospet Taluk, Bellary District
2. Sample collected by : GLOBAL Environment & Mining Services
3. Particulars of sample collected : RDS Sampler (**GTI-151**) (**GEMS-01, GEMS-02,GEMS-03,)Calibration Date: 21.03.2020)**
4. Report to be sent : **04.06.2020**
5. Method adopted : IS 5182 (Part 4) : 1999 RA 2014
6. Report Number : **ULR-TC5323200000000928F**

Sl.N0.	Location / Plant	Date Of Monitoring	Date Of Sample Receipt	SPM* ($\mu g/m^3$)	Standard
I. Beneficiation Plant-II					
1.	Ball Mill Area (Zero Meter)	20.05.2020	21.05.2020	617.45	**2000**
2.	Iron Ore Hopper (Near Monsoon Shed)	20.05.2020	21.05.2020	936.33	**2000**
3.	Concentrate Thickner	20.05.2020	21.05.2020	592.17	**2000**
II. Pellet Plant-II					
4.	PR-6	21.05.2020	22.05.2020	432.07	**2000**
5.	Annual Cooler	21.05.2020	22.05.2020	611.14	**2000**
6.	Additive Grinding Building	21.05.2020	22.05.2020	792.91	**2000**
III. Sponge Iron Division -2 (Kiln 1 & 2)					
7.	Control room	22.05.2020	23.05.2020	437.68	**2000**
8.	Near Weigh bridge (dispatch)	22.05.2020	23.05.2020	753.50	**2000**
9.	Pellet Storage bin	22.05.2020	23.05.2020	1147.51	**2000**
IV. Sponge Iron Division -2 (Kiln 3 & 4)					
10.	Near Control room	23.05.2020	25.05.2020	636.59	**2000**
11.	Near Coal crusher	23.05.2020	25.05.2020	815.87	**2000**
12.	Near Product bin	23.05.2020	25.05.2020	546.31	**2000**
V. Wagon Tipper/RMHS					
13.	Near Tipping point	25.05.2020	26.05.2020	953.10	**2000**
14.	Monsoon Shed (CPU)	25.05.2020	26.05.2020	648.02	**2000**
15.	MCC Room(2nd Gate)	25.05.2020	26.05.2020	632.04	**2000**
VI. Power Plant-70 MW					
16.	70MW-DM Plant (Near R.O. Plant)	26.05.2020	27.05.2020	430.03	**500**
17.	Coal Screen (near gate weigh bridge)	26.05.2020	27.05.2020	387.80	**500**
18.	CFBC boiler	26.05.2020	27.05.2020	361.46	**500**

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

Analyzed By
Chemist
J.M.Thippeswamy

Authorised Signatory
Technical Manager
K.Ramakrishna Reddy

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STACK MONITORING RESULTS

Annexure – 2/B

1. Name of the Industry : BMM Ispat Ltd., Danapur, Hospet Taluk, Bellary district
2. Sample collected by : GLOBAL Environment & Mining Services
3. Particulars of sample collected : Vayubodhan Stack sampler VSS 1**Sl.No. 304 DTB 07 Calibration Date:04.06.2019**
4. Month : **MAY -2020(1st Fort Night)**

Si. No	Stack Attached to	Date of Monitoring	Fuel Used	Ta ^{o}C	TS ^{o}C	V m/Sec	HEIGHT (m)	Diameter (m)	Results			Standards PM (mg/ Nm^3)
									PM mg/Nm^3	SO_2* mg/Nm^3	NO 2* mg/Nm^3	
1	Pellet Plant-2 ESP		Coal				100	3.00	MONITORING COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)			100
2	2X500TPD Sponge iron kiln1&2 ESP		Coal				70	3.00				100
3	2X500TPD Sponge iron kiln3&4 ESP		Coal				70	3.00				100
4	1 X 70MW-CFBC Boiler ESP		Coal	-			70	3.00				50
5	2X70MW -CFBC Boiler ESP		Coal	-	-	-	110	8.00				50
6	SMS		Coal	-	-	-	86	2.40				50
7	Bar mill		Furnace Oil	-	-	-	87	3.00				150
Chimneys attached to Bag Filter (De dusting Units)												
Beneficiation Plant-2												
1	Iron Ore Cone Crusher	NOT IN OPERATION										50
2	Iron Ore Screening											50
Pellet Plant-2												
3	Additive grinding mill	NOT IN OPERATION										50
4	Mixer building											50
5	Pellet discharge point											50
2 X 500 TPD Sponge Iron Kiln 1 & 2												
6	Cooler Discharge -1		---	---			30	1.20	MONITORING COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)			50
7	Cooler Discharge -2		---	---			30	1.20				50
8	Coal stock house		---	---			30	1.20				50
9	Production Separation bin-1&2		---	---			30	1.20				50
10	Production Separation bin-3&4		---	---			30	1.20				50
11	Transfer House		---	---			30	1.20				50

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2014)
SO_2 (mg/Nm3)*	Flue Gas Analyzer
NO_2 (mg/Nm3)*	Flue Gas Analyzer

Note : SO_2 - Sulphur dioxide NO_2 - Nitrogen dioxide & PM -Particulate matter

Analyzed By
Chemist
J.M.Thippeswamy

Authorised Signatory
Technical Manager
K.Ramakrishna Reddy

Note:

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STACK MONITORING RESULTS

Annexure – 2/B

1. Name of the Industry : BMM Ispat Ltd., Danapur , Hospet Taluk, Bellary district.
2. Sample collected by : GLOBAL Environment & Mining Services
3. Particulars of sample collected : Vayubodhan Stack sampler VSS 1**Sl.No. 304 DTB 07 Calibration Date: 04.06.2019**
4. Month **: MAY-2020 (1st Fort Night)**

Sl. No	Stack Attached to	Date of Monitoring	Fuel Used	Ta ^0C	TS ^0C	V m/Sec	HEIGHT (m)	Diameter (m)	Results			Standards PM (mg/ Nm3)
									PM mg/Nm^3	SO_{2*} mg/Nm^3	NO_{2*} mg/Nm^3	
Chimneys attached to Bag Filter (De dusting Units)												
2X500 TPD Sponge Iron Kiln 3&4												
12	Coal Primary Screen	-	---	---			30	1.20	**Not in Operation**			50
13	Coal Stock House -1 & coal stock house-2	-	---	---			30	1.20				50
14	Cooler Discharge -1		---	---			30	1.20	**MONITORING COULD NOT CARRIEDOUT DUE TO COVID-19 (LOCKDOWN)**			50
15	Cooler Discharge -2 & PSB transfer tower		---	---			30	1.20				50
16	Production Bunker & Intermediate bin		---	---			30	1.20				50
17	Production Separation bin	-	---	---			30	1.20				50
18	Pellet Stock house	-	---	---			30	1.20	**Not in Operation**			50
19	Dolochar Stock House 1 & 2	-	---	---			30	1.20				50
20	CPU Building	-	---	---			30	1.20				50

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2014)
SO_2 (mg/Nm3)*	Flue Gas Analyser
NO_2 (mg/Nm3)*	Flue Gas Analyser

Note :
SO_2 - Sulphur dioxide
NO_2 - Nitrogen dioxide
PM - Particulate matter

Analyzed By
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STACK MONITORING RESULTS

Annexure – 2/B

1. Name of the Industry : BMM Ispat Ltd., Danapur, Hospet Taluk, Bellary district.
2. Sample collected by : GLOBAL Environment & Mining Services.
3. Particulars of sample collected : Vayubodhan Stack sampler VSS 1Sl.No. 304 DTB 07 Calibration Date: 04.06.2020
4. Month : **May - 2020(2nd Fort Night)**
5. Report No : **ULR-TC532320000000954F**

Si. No	Stack Attached to	Date of Monitoring	Fuel Used	Ta ^{O}C	TS ^{O}C	V m/Sec	HEIGHT (m)	Diameter (m)	Results			Standards PM (mg/ Nm ^{3})
									PM mg/Nm^3	SO_{2}* mg/Nm^3	NO $_{2}$* mg/Nm^3	
1	Pellet Plant-2 ESP	22.05.2020	Coal	38	150	7.59	100	3.00	72.6	20.02	0	
2	2X500TPD Sponge iron kiln1&2 ESP	21.05.2020	Coal	40	144	7.41	70	3.00	86.4	54.64	12.3	100
3	2X500TPD Sponge iron kiln3&4 ESP	23.05.2020	Coal	41	139	7.11	70	3.00	78.2	58.4	32.8	100
4	1 X 70MW-CFBC Boiler ESP	22.05.2020	Coal	40	146	7.59	70	3.00	48.6	22.88	75.45	50
5	2X70MW -CFBC Boiler ESP	-	Coal	-	-	-	100	3.00	SHUT DOWN			50
6	SMS	-	Coal	-	-	-	86	2.40				50
7	Barmill	-	Furnace Oil	-	-	-	87	3.00				150
Chimneys attached to Bag Filter (De dusting Units)												
Beneficiation Plant-2												
1	Iron Ore Cone Crusher	NOT IN OPERATION										50
2	Iron Ore Screening											50
Pellet Plant-2												
3	Additive grinding mill	NOT IN OPERATION										50
4	Mixer building											50
5	Pellet discharge point											50
2 X 500 TPD Sponge Iron Kiln 1 & 2												
6	Cooler Discharge -1	21.05.2020	---	---			30	1.20	26.2	---	---	50
7	Cooler Discharge -2	21.05.2020	---	---			30	1.20	38.6	---	---	50
8	Coal stock house	21.05.2020	---	---			30	1.20	18.4	---	---	50
9	Production Separation bin-1& 2	21.05.2020	---	---			30	1.20	41.6	---	---	50
10	Production Separation bin-3&4	21.05.2020	---	---			30	1.20	36.4	---	---	50
11	Transfer House	21.05.2020	---	---			30	1.20	31.6	---	---	50

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2014)
SO_{2} (mg/Nm3)*	Flue Gas Analyser
NO_{2} (mg/Nm3)*	Flue Gas Analyser

Note : SO_{2} - Sulphur dioxide NO_{2} -Nitrogen dioxide PM -Particulate matter

Analyzed By
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2. Sample collected by : GLOBAL Environment & Mining Services
3. Particulars of sample collected : Vayubodhan Stack sampler VSS 1 Sl.No. 304 DTB 07 Calibration Date: 04.06.2020
4. Month : **MAY- 2020(2nd Fort Night)**
5. Report No **: ULR-TC532320000000954F**

Sl. No	Stack Attached to	Date of Monitoring	Fuel Used	Ta ^0C	TS ^0C	V m/Sec	HEIGHT (m)	Diameter (m)	Results			Standards PM (mg/ Nm3)
									PM mg/Nm^3	SO_{2*} mg/Nm^3	NO $_{2*}$ mg/Nm^3	
Chimneys attached to Bag Filter (De dusting Units)												
2X500 TPD Sponge Iron Kiln 3&4												
12	Coal Primary Screen	-	---	---		30	1.20	Not in Operation				50
13	Coal Stock House -1 & coal stock house-2	-	---	---		30	1.20					50
14	Cooler Discharge -1		---	---		30	1.20	46.5				
15	Cooler Discharge -2 & PSB transfer tower		---	---		30	1.20	36.9				
16	Production Bunker & Intermediate bin	-	---	---		30	1.20	Not in Operation				
17	Production Separation bin	-	---	---		30	1.20	--	----	---		50
18	Pellet Stock house	-	---	---		30	1.20	Not in Operation				50
19	Dolochar Stock House 1 & 2	-	---	---		30	1.20					50
20	CPU Building	-	---	---		30	1.20					50

Parameter	Protocol
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2014)
SO_2 (mg/Nm3)*	Flue Gas Analyser
NO_2 (mg/Nm3)*	Flue Gas Analyser

Note :
SO_2 - Sulphur dioxide
NO_2 - Nitrogen dioxide
PM - Particulate matter

Analyzed By
Chemist
J.M.Thippeswamy

Authorised Signatory
Technical Manager
K.Ramakrishna Reddy

Note:
1.The result listed refer only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2.Samples will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
3.This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not used any advertising media without special permission in writing.
4.Total liability of our laboratory is limited amount. Any dispute arising out of this report is subject to Bangalore jurisdiction only.