





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



ENVIRONMENT MONITORING REPORT

Stage 2 Units

For

APRIL-2015



GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine Designers, Geologists & Surveyors) 3rd main road, Basaveswara badavane **HOSPET – 583201**, Dist., Bellary (Karnataka)

Tel Mobile e-mail Website : 08394 – 651111,229433 : +919448479433/9449830533 : gems_hpt@yahoo.com : 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 Fugitive monitoring within the plant, Stack monitoring and Noise 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 Fugitive monitoring within the plant, Stack monitoring for all chimneys, and Noise monitoring 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: Hospet Date: 06.05.2015

S. Kameswara Rao (Managing partner)



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 ShriUdaichandSinghi.

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 2000 CroresCompany 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'.



M/S. BMM ISPAT LIMITED.

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, Cement & Mining companies in India that has achieved the present level under the leadership and guidance of Sri Dinesh Kumar Singh, the Founder & Director 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 to set up new Rolling Mill.The corporate office of the project is located as follows:

BMM ISPAT LIMITED

(Registered Office & Works) #114, Danapura Hospet - 583 222 Bellary Dist., Karnataka Phone +91 83942 44681/82/83/9972309417 Fax +91 080-30723604.



1.3 BRIEF PROFILE OF THE GROUP MINES. TMT Bars:

Steel for TMT bars is fully kilned in a furnace. The molten steel is void of slag with the inclusion of argon gas. The chemistry and temperature is homogenized to ensure uniform composition. The liquid steel is then tapped into the concast. (Continuous of Casting Machine).

Billet Quality for TMT Steel:

- No impurities Viz. Slag and refractory inclusions.
- No piping and blowholes.
- Superior Surface finishes without defects.
- Consistent properties throughout its length.

Steel:

The steel plant setup in 2006 as per BMM'S aspirations now produces 75,000 TMT bars annually. BMM ISPAT LTD manufactures high strength TMT steel bars for concrete reinforcement, which are internationally competitive and highly ductile for safety in structures.

Properties of BMM Steel:

- Steel is Corrosion Resistance, owing to its water quenching methods.
- With 0.25%, carbon BMM TMT has an excellent wielding ability.
- Stringent Control over chemical composition prevents brittleness.
- TMT bonds best with concrete to form strong reinforcement.

BMM Cement

BMM Cements Limited an integral part of the BMM Group has successfully commissioned its new cement plant with an annual capacity of one Million Tons per annum.

1.4 Site Location

BMM ISPAT LIMITED is located at Danapur about 15 Kms away from Hospet 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

BMM

ENVIRONMENTAL MONITORING REPORT

M/S. BMM ISPAT LIMITED.

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	2.30 MTPA
8	Continuous casting machines	
	Slab Caster	1.10 MTPA
	Billet Caster	1.10 MTPA
9	Rolling mills :	
	Hot strip mill	1.00 MTPA
	Structurals/wire rods	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 PowerPlants** have been commissioned on August 2011 and Beneficiation platn-2, Pellet Plant-2 are commissioned on March 2012.2x70 MW Thermal based power plants have commissioned on Jan 2013 other plants are under construction. Hence environmental monitoring has being carried out for 4 x 500 TPD sponge iron plants, 1X70 MW Thermal Power Plant, 1.3MTPA Beneficiation, 1.2MTPA Pellet Plant and 2X70MW Power plant every Month.

1.5 The report includes environmental monitoring data collected at above site for the month of **April-2015**. 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, pl. refers Stage-I report for the same.*



1.6 Study:

The data collection programmeis givenbelow:

1.7 <u>Fugitive Emission Monitoring</u>

Ambient Air Quality was monitored 40samples 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 – $1/B(2^{nd}Fort night)$.

1.8 <u>Stack Monitoring</u>

Vayubhodhan Stack sampler VSS1 stack monitoring was used for drawing the flue gas. Sulphur dioxide and oxides of Nitrogen in the flue gas were sampled by bubbling flue gas in 3% H₂O₂ and 0.1N NaOH solution respectively and the analysis 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* – $2/A(1^{st}$ Fort night) & Annexure – $2/B(2^{nd}$ Fort night)

1.9 Stack Emissions Monitoring Methodology

1.10 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 iskinetic Sampling.

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

1.11 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 iskinetic sampling.



1.12 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

1.13 Fortnightly fugitive air quality was monitored all plant area SPM value minimum **232.0** μ g/m³, maximum value**1886.0** μ g/m³, and average value **739.77\mug/m³**.

1.14 Stack emission level was monitored allchimneys' PM values (mg/Nm³) 1st and 2nd Fort Night Minimum Value **22.10 mg/Nm³**. Maximum Value **74.20 mg/Nm³** & Average Value **41.03 mg/Nm³**.

1.15Conclusion

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



Annexure-1/A (1 st Fort Night)

FORTNIGHTLY FUGITIVE AIR QUALITY DATA MONITORING APRIL-2015

- 1. Name of the Industry
- : BMM Ispat Ltd., Danapur, Hospet Taluk, Bellary District.
- Sample collected by
 Particulars of sample collected
- : GLOBAL Environment & Mining Services, Hospet. : RDS Sampler (AAS 217 BL)
- Report to sent
 Method adopted
- : **06.05.2015** : IS 5182 (Part 23) : 2006

Sl.N0.	Location / Plant	Date Of Monitoring	Date Of Sample Receipt	SPM (µg/m³)	Standard				
I. Bene	ficiation Plant-II			•					
1.	Ball Mill Area	06.04.2015	07.04.2015	446	500				
2.	Iron Ore Hopper (Near monsoon shed)	06.04.2015	07.04.2015	484	500				
3.	Concentrate Thickener	06.04.2015	07.04.2015	458	500				
II. Pelle	et Plant-II								
4.	PR-6	07.04.2015	08.04.2015	352	500				
5.	Annual Cooler	07.04.2015	08.04.2015	308	500				
6.	CGB Building	07.04.2015	08.04.2015	422	500				
III. Sponge Iron Division -2 (Kiln 1 & 2)									
7.	Control room	08.04.2015	09.04.2015	1516	2000				
8.	Near Weigh bridge (dispatch)	08.04.2015	09.04.2015	1432	2000				
9.	Pellet Storage bin	08.04.2015	09.04.2015	1848	2000				
IV. Spo	nge Iron Division -2 (Kiln 3 & 4)								
10.	Near Control room	09.04.2015	10.04.2015	1234	2000				
11.	Near Coal crusher	09.04.2015	10.04.2015	1728	2000				
12.	Near Product bin	09.04.2015	10.04.2015	1126	2000				
-	on Tipper/RMHS		1	1					
13.	Near Tipping point	10.04.2015	11.04.2015	446	500				
14.	Monsoon Shed	10.04.2015	11.04.2015	482	500				
15.	MCC room (2 nd Gate)	10.04.2015	11.04.2015	438	500				
VI. Pow	ver Plant-70 MW	1	1						
16.	70MW-DM Plant (Near R.O. Plant)	11.04.2015	13.04.2015	322	500				
17.	Coal Screen (near gate weigh bridge)	11.04.2015	13.04.2015	306	500				
18.	CFBC boiler	11.04.2015	13.04.2015	464	500				
	70MW Power Plant		1	1					
19.	Near Boiler	13.04.2015	14.04.2015	358	500				
20.	Near Coal storage Shed	13.04.2015	14.04.2015	476	500				

Note: SPM - Suspended Particulate matter (µg/m³)

INFERENCE: The Measured Values are within the limits

Analyzed By Environmental Eng (G.Aarathi) Verified by Technical Manager (K.Ramakrishna Reddy) **Quality Manager**

(Nizamuddin)

Note:

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- 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 Hospet jurisdiction only.



20.

1	FORTNIGHTLY FUGITIVE A			(2 nd <u>G APRIL-2</u>	
	2	. .	apur, Hospet Taluk,		trict
	- ·		nt & Mining Service	S	
		Sampler (AAS 2	17 BL)		
	eport to be sent : 06.05.				
5. M	ethod adopted : IS 518	2 (Part 23): 20	06		
SI.N O.	Location / Plant	Date Of Monitoring	Date Of Sample Receipt	SPM (µg/m³)	Standard
I. Ben	eficiation Plant-II			•	
1.	Ball Mill Area	17.04.2015	18.04.2015	476	500
2.	Iron Ore Hopper (Near monsoon shed)	17.04.2015	18.04.2015	460	500
3.	Concentrate Thickener	17.04.2015	18.04.2015	472	500
II. Pe	llet Plant-II				
4.	PR-6	18.04.2015	20.04.2015	255	500
5.	Annual Cooler	18.04.2015	20.04.2015	273	500
6.	CG Building	18.04.2015	20.04.2015	415	500
III. Sp	onge Iron Division -2 (Kiln 1 & 2)				
7.	Control room	20.04.2015	21.04.2015	1436	2000
8.	Near Weigh bridge (dispatch)	20.04.2015	21.04.2015	1418	2000
9.	Pellet Storage bin	20.04.2015	21.04.2015	1820	2000
IV. Sp	onge Iron Division -2 (Kiln 3 & 4)				
10.	Near Control room	21.04.2015	22.04.2015	1154	2000
11.	Near Coal crusher	21.04.2015	22.04.2015	1886	2000
12.	Near Product bin	21.04.2015	22.04.2015	1728	2000
	igon Tipper/RMHS				
13.	Near Tipping point	22.04.2015	23.04.2015	447	500
14.	Monsoon Shed	22.04.2015	23.04.2015	476	500
15.	MCC room (2 nd Gate)	22.04.2015	23.04.2015	462	500
VI. Po 16.	ower Plant-70 MW 70MW-DM Plant (Near R.O. Plant)	22.04.2015	25.04.2015	222	500
16. 17.	Coal Screen (near gate weigh bridge)	23.04.2015 23.04.2015	25.04.2015 25.04.2015	232 295	500 500
17.	CFBC boiler	23.04.2015	25.04.2015	442	500
	X70MW Power Plant	23.07.2013	23.04.2013	772	500
19.	Near Boiler	25.04.2015	26.04.2015	338	500
17.	Near Boller	25.01.2015	20.01.2015	330	500

Note: SPM - Suspended Particulate matter $(\mu g/m^3)$

Near Coal storage Shed

INFERENCE: The Measured Values are within the limits

Analyzed By Environmental Eng

(G.Aarathi)

Verified by **Technical Manager** (K.Ramakrishna Reddy)

25.04.2015

26.04.2015

Quality Manager

460

500

(Nizamuddin)

Note:

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STACK MONITORING RESULTS

Annexure – 2/A

- 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
- 4. Month : April 2015 (1st Fort Night)

Si.		Date of	Fuel	Та		v	HEIGHT	Diameter		Results		Standards	
No	Stack Attached to	Monitoring	Used	°C	TS °C	m/Sec	(m)	(m)	РМ	SO ₂ mg/Nm ³	NO 2 mg/ Nm ³	PM (mg/ Nm ³)	
1	Pellet Plant-2 ESP		•	•	•		Shutdown						
2	2X500TPD Sponge iron kiln1&2 ESP	07.04.2015	Coal	32	147	6.84	70	3.00	42.8	68.22	BDL	100	
3	2X500TPD Sponge iron kiln3&4 ESP	08.04.2015	Coal	31	146	7.48	70	3.00	74.2	61.18	4.08	100	
4	1 X 70MW-CFBC Boiler ESP	09.04.2015	Coal	33	143	7.58	70	3.00	62.8	58.34	2.16	100	
5	2X70MW -CFBC Boiler ESP	10.04.2015	Coal	34	164	9.12	110	8.00	46.4	60.21	2.04	50	
Chimneys attached to Bag Filter (De dusting Units)													
Beneficia	ation Plant-2												
1	Iron Ore Cone Crusher	06.04.2015					30	1.20	36.2			50	
2	Iron Ore Screening	06.04.2015					30	1.20	34.6			50	
Pellet Pla	ant-2		•				•	•					
3	Additive grinding mill											50	
4	Mixer building						Shutdown					50	
5	Pellet discharge point											50	
2 X 500 1	ГРD Sponge Iron Kiln 1 & 2												
6	Cooler Discharge -1	07.04.2015					30	1.20	41.2			50	
7	Cooler Discharge -2	08.04.2015					30	1.20	38.4			50	
8	Coal stock house	08.04.2015					30	1.20	28.8			50	
9	Production Separation bin-1	08.04.2015					30	1.20	39.2			50	
10	Production Separation bin-2	09.04.2015					30	1.20	42.4			50	
11	Transfer House	09.04.2015					30	1.20	41.2			50	
	Parameter		Proto	otocol			Note						

Parameter	Protocol	<u>Note</u> :	
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2009)	SO ₂ -	Sulphur dioxide
SO ₂ (mg/Nm3)	IS 11255 (Part 2) : 1985 (reaffirmed 2014)	NO ₂ -	Nitrogen dioxide
NO ₂ (mg/Nm3)	IS 11255 (Part 7) : 2005 (reaffirmed 2005)	PM	- Particulate matter
			i di titulitte inditter

Analyzed By

Lab In-Charge

Note:

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STACK MONITORING RESULTS

Annexure – 2/A

- 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
- 4. Month : April 2015 (1st Fort Night)

SI.		Date of	Fuel	Та	TS	v	HEIGHT	Diameter		Results		Standards
No	Stack Attached to		m/Sec	(m)	(m)	РМ	SO ₂ mg/Nm ³	NO 2 mg/ Nm ³	PM (mg/ Nm ³)			
Chim	Chimneys attached to Bag Filter (De dusting Units)											
2X50	0 TPD Sponge Iron Kiln 3&4											
12	Coal Primary Screen	09.04.2015					30	1.20	39.4			50
13	Coal Stock House -1 & coal stock house-2	10.04.2015					30	1.20	43.2			50
14	Cooler Discharge -1	10.04.2015					30	1.20	38.1			50
15	Cooler Discharge -2 & PSB transfer tower	10.04.2015					30	1.20	36.4			50
16	Production Bunker & Intermediate bin	11.04.2015					30	1.20	40.3			50
17	Production Separation bin	11.04.2015					30	1.20	34.2			50
18	Pellet Stock house	11.04.2015					30	1.20	39.8			50
19	Dolochar Stock House 1 & 2	13.04.2015					30	1.20	41.3			50
20	CPU Building	13.04.2015					30	1.20	32.6			50

Parameter	Protocol	Note :	
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2009)	SO ₂ -	Sulphur dioxide
SO ₂ (mg/Nm3)	IS 11255 (Part 2) : 1985 (reaffirmed 2014)	NO2 -	Nitrogen dioxide
NO ₂ (mg/Nm3)	IS 11255 (Part 7) : 2005 (reaffirmed 2005)	PM -	Particulate matter

Analyzed By Environmental Eng (G.Aarathi) Verified by Technical Manager (K.Ramakrishna Reddy) **Quality Manager**

(Nizamuddin)

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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
- 4. Month : April 2015 (**2**nd Fort Night)

Si.		Date of	Fuel	Та	TS	v	HEIGHT	Diameter		Results		Standards	
No	Stack Attached to	Monitoring	Used	°C	°C	m/Sec	(m)	(m)	РМ	SO ₂ mg/Nm3	NO 2 mg/ Nm3	PM (mg/ Nm ³)	
1	Pellet Plant-2 ESP					•	Shut Dow	Shut Down					
2	2X500TPD Sponge iron kiln1&2 ES	P 18.04.2015	Coal	34	146	6.99	70	3.00	47.1	73.18	BDL	100	
3	2X500TPD Sponge iron kiln3&4 ES	P 20.04.2015	Coal	35	149	7.40	70	3.00	70.8	62.26	2.12	100	
4	1 X 70MW-CFBC Boiler ESP	21.04.2015	Coal	35	147	7.77	70	3.00	51.3	66.34	3.28	100	
5	2X70MW -CFBC Boiler ESP	22.04.2015	Coal	35	160	9.47	110	8.00	44.5	71.16	2.06	50	
Chimneys attached to Bag Filter (De dusting Units)													
Beneficia	ation Plant-2												
1	Iron Ore Cone Crusher	18.04.2015					30	1.20	43.2			50	
2	Iron Ore Screening	18.04.2015					30	1.20	39.8			50	
Pellet Pla	ant-2												
3	Additive grinding mill											50	
4	Mixer building						Shut Dow	'n				50	
5	Pellet discharge point											50	
2 X 500 1	ГРD Sponge Iron Kiln 1 & 2												
6	Cooler Discharge -1	18.04.2015					30	1.20	37.9			50	
7	Cooler Discharge -2	20.04.2015					30	1.20	41.6			50	
8	Coal stock house	20.04.2015					30	1.20	22.1			50	
9	Production Separation bin-1	20.04.2015					30	1.20	35.4			50	
10	Production Separation bin-2	21.04.2015					30	1.20	39.0			50	
11	Transfer House	21.04.2015					30	1.20	38.4			50	
	Parameter		Protoc	n			Note						

Parameter	Protocol	<u>Note</u>	<u>) :</u>	
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2009)	SO_2	-	Sulphur dioxide
SO ₂ (mg/Nm3)	IS 11255 (Part 2) : 1985 (reaffirmed 2014)	NO ₂	-	Nitrogen dioxide
NO ₂ (mg/Nm3)	IS 11255 (Part 7) : 2005 (reaffirmed 2005)	PM	-	Particulate matter

Analyzed By Environmental Engg (G.Aarathi) Verified by Technical Manager (K.Ramakrishna Reddy) **Quality Manager**

(Nizamuddin)

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1. Name of the Industry

STACK MONITORING RESULTS

Annexure – 2/B

- : 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
- 4. Month : April 2015 (2nd Fort Night)

Si.		Date of	Fuel	Та	TS	v	HEIGHT	Diameter		Results		Standards
No	Stack Attached to	Monitoring	Used	°C	°C	m/Sec	(m)	(m)	РМ	SO ₂ mg/Nm3	NO 2 mg/ Nm3	PM (mg/ Nm ³)
Chim	Chimneys attached to Bag Filter (De dusting Units)											
2X50	2X500 TPD Sponge Iron Kiln 3&4											
12	Coal Primary Screen	18.04.2015					30	1.20	36.2			50
13	Coal Stock House -1 & coal stock house-2	18.04.2015					30	1.20	41.3			50
14	Cooler Discharge -1	21.04.2015					30	1.20	39.6			50
15	Cooler Discharge -2 & PSB transfer tower	22.04.2015					30	1.20	38.2			50
16	Production Bunker & Intermediate bin	22.04.2015					30	1.20	40.2			50
17	Production Separation bin	22.04.2015					30	1.20	34.4			50
18	Pellet Stock house	24.04.2015					30	1.20	38.2			50
19	Dolochar Stock House 1 & 2	24.04.2015					30	1.20	31.6			50
20	CPU Building	24.04.2015					30	1.20	39.2			50

Parameter	Protocol	Note :	
Particulate Matter (mg/Nm3)	IS : 11255 (Part 1) - 1985 (reaffirmed 2009)	SO2 -	Sulphur dioxide
SO ₂ (mg/Nm3)	IS 11255 (Part 2) : 1985 (reaffirmed 2014)	NO2 -	Nitrogen dioxide
NO ₂ (mg/Nm3)	IS 11255 (Part 7) : 2005 (reaffirmed 2005)	PM -	Particulate matter

Analyzed By	
Environmental Engg	
(G.Aarathi)	

Verified by Technical Manager (K.Ramakrishna Reddy) **Quality Manager**

(Nizamuddin)

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.