JSW Steel Limited

Dolvi Works: Geetapuram,
Dolvi, Taluka - Pen,
Dist Raigad - 402 107, Maharashtra, India.
CIN. : L27102MH1994PLC152925
Phone : +91 2143 277501-15
Fax : +91 2143 277533/42
Website : www.jsw.in

BY COURIER

April 10, 2020

JSWSL/ENV/MOEF&CC/2020

To

The Regional Officer,
Ministry of Environment, Forests & Climate Change
Regional Office, (West Central Zone)
Ground Floor, East Wing,
New Secretarial Building, Civil Line,
Nagpur – 440001.

Sub: Submission of Six Monthly Environmental Monitoring Reports for Integrated Steel Plant for the Period of October 2019 to March 2020.

Ref: i) EC from MoEFCC vide F No J-11011 / 4 / 96 – IA – II dated 31st December 1996.
ii) EC from MoEFCC, vide F No J-11011/166/2011-IA-II (I) dated 21st November 2012.
iii) EC from MoEFCC, vide F No J-11011/176/2013-IA-II (I) dated 25th August 2015.

Dear Sir,

Please find enclosed the six monthly Environmental Monitoring Reports for the period of October 2019 to March 2020 for Integrated Steel Plant. Report contains the analysis of Cooling Tower Blow Down, Treated & Untreated Effluent from Sponge Iron Plant, Stack Emissions and Work Zone Air Quality from Sponge Iron Plant, Hot Strip Mill Plant, Blast Furnace Plant, Lime Calcining Plant, Captive Power Plant, Sinter Plant-I, Sinter Plant-II, Billet Caster and Bar Mill and Ambient Air Quality for the Integrated Steel Plant.

This is for your information and record please.

Thanking You,

Yours Faithfully,
For JSW Steel Limited,

Vitthal M Waghchaure
General Manager (Environment)

CC: 1) The Director, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003 for kind information.
2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023, Gujarat.
3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai

JINDAL Part of O.P. Jindal Group

Regd. Office: JSW Centre,
Bandra Kurla Complex,
Bandra(East), Mumbai - 400 051.
Phone : +91 22 4286 1000
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JSW STEEL LIMITED

GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

COOLING TOWER BLOWDOWN WATER ANALYSIS REPORT

Sr. No.	PARAMETERS	UNIT	VALUES					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	Chromium	mg/l	0.0022	0.0017	0.014	0.0014	0.0019	0.0020
2	Zinc	mg/l	0.097	0.095	0.098	0.096	0.097	0.098
3	Phosphate	mg/l	0.95	0.98	0.92	0.94	0.92	0.93
4	Free Chlorine	mg/l	Nil	Nil	Nil	Nil	Nil	Nil

Prepared By
P. P. Nandusekar
Assistant.Manager (Environment)

Checked By
V. M. Waghchaure
General Manager (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

SIX MONTHLY TREATED EFFLUENT ANALYSIS REPORT

SR. NO.	PARAMETERS	UNIT	VALUES					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	Temperature	°C	27.1	27.2	27.2	27.10	27.10	27.10
2	pH	-	7.2	7.3	7.2	7.30	7.30	7.40
3	D.O.	mg/l	5.3	5.4	5.3	5.40	5.30	5.20
4	T.D.S.	mg/l	248.0	245.5	246.4	257.00	263.00	262.00
5	T.S.S.	mg/l	18.7	17.5	18.2	18.10	18.20	18.30
6	C.O.D.	mg/l	28.4	24.0	26.7	27.90	26.50	26.90
7	B.O.D.	mg/l	6.8	6.9	7.0	6.90	7.10	7.00
8	Oil & Grease	mg/l	3.2	3.0	3.2	3.40	3.20	3.30
9	Iron	mg/l	0.30	0.3	0.3	0.30	0.29	0.28
10	Chlorides	mg/l	51.6	52.5	55.0	27.48	54.98	52.22
11	Sulphates	mg/l	2.3	2.3	2.2	2.19	2.34	2.24
12	Bioassay Test on 100 % Effluent for 96 Hours.	Survival Rate	100%	100%	100%	100%	100%	100%
13	Receiving Water Body Temperature	^{0}C	27.20	27.20	27.00	27.20	27.20	27.10

Prepared By
P. P. Nandusekar
Assistant. Manager (Environment)

Checked By
V. M. Waghchaure
General Manager (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

SIX MONTHLY UNTREATED EFFLUENT ANALYSIS REPORT

SR. NO.	PARAMETERS	UNIT	VALUES					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	Temperature	°C	57	57	57.3	57.30	57.30	57.40
2	pH	-	80.1	8.2	8.1	8.10	8.10	8.10
3	D.O.	mg/l	2.2	2.2	2.3	2.20	2.30	2.40
4	T.D.S.	mg/l	552.8	556.8	544.1	348.80	555.50	412.00
5	T.S.S.	mg/l	465.3	459.5	458.4	451.00	456.00	453.00
6	C.O.D.	mg/l	39.0	38.7	37.3	37.20	32.00	34.20
7	B.O.D.	mg/l	7.5	7.6	7.7	7.40	7.80	7.50
8	Oil & Grease	mg/l	4.4	5.4	4.8	4.80	5.20	5.00
9	Iron	mg/l	1.2	1.3	1.20	1.24	1.26	1.25
10	Chlorides	mg/l	150.0	152.5	150.00	147.45	134.95	142.17
11	Sulphates	mg/l	3.3	3.2	3.20	3.17	3.32	3.26

Prepared By
P. P. Nandusekar
Assistant Manager (Environment)

Checked By
V. M. Waghchaure
General Manager (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : OCTOBER, 2019

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/10/2019	17.69	35.74	11.69	53.50					16.20	23.98	2.08	16.92	12.64	49.48	19.02	16.96	7.81		11.25	8.82
02/10/2019	18.94	32.96	11.67	53.67					25.52	36.39	0.00		16.97	49.39	19.05	14.02	8.99		11.63	8.81
03/10/2019	10.92	27.32	11.23	51.34					24.14	46.27	5.61		16.84	56.63	19.75	20.60	8.54		11.02	8.80
04/10/2019	16.06	53.10	11.19	41.36					17.96	29.63	12.69		22.11	42.95	19.74	23.36	9.96		11.31	8.83
05/10/2019	21.82	81.56	11.20	40.52					12.87	38.56	13.01		20.08	51.70	19.62	17.20	10.2		11.47	8.82
06/10/2019	19.62	78.32	11.48	42.98					13.16	19.55	13.47		21.38	60.49	19.67	15.03	9.63		11.11	8.82
07/10/2019	29.38	81.89	11.45	35.75					22.03	34.21	14.24		21.44	60.47	19.64	13.68	10.7		11.61	8.82
08/10/2019	22.33	93.16	11.31	35.76					19.00	27.81	14.16		21.30	51.39	19.86	12.62	11.63		11.29	8.82
09/10/2019	13.12	50.30	11.11	36.72					26.27	81.75	22.58		16.10	36.04	19.62	14.07	8.95		11.35	8.12
10/10/2019	24.58	74.63	11.41	38.23					11.64	16.67	18.22		19.32	47.92	20.01	20.76	9.95		11.62	8.82
11/10/2019	23.83	68.66	11.33	37.97					13.57	18.26	17.88	Insufficient power supply.	22.76	40.84	19.99	20.69	9.32		10.78	8.84
12/10/2019	28.74	76.02	11.44	40.88					14.32	21.65	18.06		19.00	50.63	19.99	22.17	10.35		12.21	8.83
13/10/2019	28.08	94.54	11.43	44.41					12.84	17.47	18.07		20.87	44.19	20.14	20.26	11.16		11.99	8.81
14/10/2019	23.74	61.93	11.48	43.11					23.21	38.71	18.22		38.91	82.13	20.27	24.66	12.31		11.67	8.81
15/10/2019	32.86	72.81	11.35	47.49					25.37	48.39	18.37		40.43	90.39	20.36	32.52	11.73	Water leakage form shelter top	11.06	8.80
16/10/2019	38.46	92.84	11.24	48.11	Power supply problem.				25.13	38.78	18.46		40.74	87.54	20.52	33.73	12.76		11.16	8.82
17/10/2019	31.67	55.51	11.31	55.98					29.65	42.84	18.70		43.08	81.36	20.63	31.57	12.7		9.64	8.80
18/10/2019	27.62	47.74	11.27	52.40					27.58	40.63	19.27		39.35	88.35	20.47	25.94	13.9		11.7	8.80
19/10/2019	11.47	19.19	11.16	49.76					9.33	44.81	19.64		14.80	20.34	20.64	28.01	9.35		11.32	8.80
20/10/2019	10.64	40.69	11.31	47.09					7.19	27.64	20.31		13.16	11.93	20.46	16.58	6.94		11.67	8.81
21/10/2019	17.11	47.41	11.01	47.24					9.72	16.54	20.62		18.52	46.41	20.53	20.27	8.41		11.29	8.80
22/10/2019	14.63	72.20	11.13	43.18									18.24	35.86	20.59	17.07	9.07		11.13	5.38
23/10/2019	11.86	44.16	11.66	41.47									9.74	16.24	20.63	20.69	8.53		12	
24/10/2019	15.19	43.79	11.42	51.71									13.15	22.44	20.99	27.59	18.76		8.26	
25/10/2019	19.90	78.26	11.20	45.49									8.75	16.22	20.91	19.13	7.63		11.27	
26/10/2019	14.23	50.72	11.23	47.55					Power supply problem.				13.62	32.78	21.11	36.85	11.42		8.75	
27/10/2019	24.66	86.57	11.54	46.53									15.40	47.50	20.82	18.20	11.54		5.12	Under Maintenance
28/10/2019	20.93	75.12	11.94	48.15									13.16	52.48	20.62	12.57	10.25		10.93	
29/10/2019	16.93	62.46	11.36	44.69									26.56	97.35	20.94	20.76	21.23		9.33	
30/10/2019	24.22	83.11	11.27	45.31									27.26	90.61	20.93	19.97	26.43		5.58	
31/10/2019	25.45	89.71	10.98	45.20					9.31	76.91	33.15		16.28	70.85	21.08	21.66	10.61		3.07	

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Oct-19	64.0	63.0
Standards	< 75	< 70

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : NOVEMBER, 2019

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/11/2019	19.57	93.69	10.96	45.22					4.96	8.63	27.08		17.14	64.24	21.12	18.00	10.41		5.83	2.88
02/11/2019	19.51	78.37	11.55	51.24					4.74	14.13	26.04		12.66	59.53	21.21	20.80	10.77		10.56	8.81
03/11/2019	15.39	53.46	11.69	47.61					7.06	16.10	25.58		12.87	47.57	21.16	16.69	11.28		11.50	8.81
04/11/2019	10.95	26.56	11.37	44.31					20.90	39.47	25.87		18.95	42.24	21.34	20.96	26.16		11.65	8.79
05/11/2019	14.42	36.37	11.22	43.16					20.46	28.08	26.34		27.19	66.96	21.69	21.98	37.84		2.29	8.78
06/11/2019	24.35	80.56	11.17	43.42					15.56	25.59	26.59		32.45	85.39	21.62	23.51	35.77		10.72	8.81
07/11/2019	26.81	86.54	11.69	47.22					9.39	14.45	26.73		18.22	68.49	21.46	16.70	59.28		7.10	8.81
08/11/2019	21.18	54.22	11.94	47.99					11.69	30.41	26.66		15.13	55.17	21.35	16.84	7.65		11.55	8.82
09/11/2019	25.12	60.21	11.87	47.07					14.69	22.66	26.85		18.64	56.27	21.30	17.14	28.24		5.24	8.81
10/11/2019	15.88	44.88	11.69	46.93					16.92	27.07	27.30		23.70	57.57	21.35	17.79	29.41		5.76	8.80
11/11/2019	23.24	68.01	11.59	46.90					20.88	29.82	27.54		29.70	93.83	21.49	19.47	17.49		2.43	8.83
12/11/2019	25.17	66.48	11.68	52.43					23.22	31.04	27.69		23.40	55.06	21.66	23.55	22.45		2.86	8.82
13/11/2019	26.11	73.81	11.54	52.49					26.27	41.47	27.79		33.04	97.62	21.61	25.56	31.81		11.58	8.81
14/11/2019	32.21	84.89	12.28	64.51					24.48	33.70	27.92		41.95	64.36	22.14	28.84	34.95		16.82	8.81
15/11/2019	26.63	70.33	11.98	55.50	Power supply problem.				28.71	38.50	27.91	Under Maintenance	28.46	61.08	22.21	31.69	3.84	Under Maintenance	3.14	8.83
16/11/2019	22.31	45.99	11.77	42.48					Power supply problem.				41.09	95.94	22.34	30.63	21.91		10.69	8.83
17/11/2019	23.12	46.20	11.67	41.80									44.63	84.85	22.23	27.75	23.64		14.29	8.83
18/11/2019	29.18	72.30	11.57	51.57									45.90	42.08	22.17	28.65	28.74		12.61	8.83
19/11/2019	33.50	57.31	12.12	45.12									57.47	89.64	22.09	26.79	36.51		9.73	6.27
20/11/2019	38.25	92.51	12.08	49.70									55.84	92.84	22.21	29.16	40.04		8.16	
21/11/2019	28.45	54.25	11.74	46.38									52.63	96.54	22.27	30.46	3.85		9.55	
22/11/2019	30.51	71.79	12.01	45.24									53.22	86.37	22.29	37.56	2.42		8.73	
23/11/2019	34.60	65.55	11.96	50.68					34.60	46.35	25.64		47.93	81.25	22.20	30.14	2.46		9.95	
24/11/2019	33.41	89.37	11.91	45.28					32.43	40.25	23.84		46.19	97.84	22.13	27.44	1.65		4.32	Under Maintenance
25/11/2019	28.35	64.34	11.88	46.80					38.41	43.04	26.54		27.20	90.34	22.49	34.84	5.04		5.57	
26/11/2019	42.28	81.47	12.14	53.94					35.61	56.82	24.58		48.79	86.49	22.57	38.32	11.48		8.63	
27/11/2019	37.33	78.62	12.10	59.64					28.94	63.78	27.84		44.14	87.25	22.48	39.55	28.54		2.26	
28/11/2019	27.03	67.37	12.01	50.72					23.41	46.12	27.96		44.99	98.81	22.41	43.97	43.12		7.59	
29/11/2019	22.17	53.39	11.80	43.14					22.87	49.82	27.64		51.64	92.37	22.77	47.65	48.61		9.18	
30/11/2019	27.08	76.79	12.03	46.22					32.51	69.81	27.34		55.79	87.88	22.85	49.08	49.80		6.92	

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Nov-19	64.0	63.0
Standards	< 75	< 70

Preapared By
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Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : DECEMBER, 2019

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/12/2019	24.13	68.43	11.93	44.17	Under Maintenance			Under Maintenance	Under Maintenance			Under Maintenance	48.80	95.24	22.77	32.84	50.48	Under Maintenance	10.42	Under Maintenance
02/12/2019	23.25	81.88	11.89	45.08									40.02	87.64	22.90	31.52	54.19		7.06	
03/12/2019	22.1	95.24	12.26	54									26.76	89.35	22.70	29.89	46.72		10.83	
04/12/2019	19.35	71.59	11.86	59.99									33.75	91.48	22.74	32.27	51.5		18.17	
05/12/2019	24.94	72.28	11.74	53.11									39.07	98.52	22.78	32.84	45.46		8.51	
06/12/2019	33.49	82.7	11.76	49.75									51.04	82.64	23.04	42.16	40.47		8.83	
07/12/2019	32.62	93.15	12.32	52.69									50.63	87.52	22.99	44.13	37.54		6.79	
08/12/2019	26.97	54.15	12.51	50.67									54.72	93.67	22.91	36.33	45.83		6.77	
09/12/2019	25.82	59.05	12.36	50.51									40.54	95.84	22.82	36.65	81.9	78.59	7.95	
10/12/2019	19.84	59.64	12.22	46									33.49	89.85	23.04	42.51	38.99	86.97	9.73	
11/12/2019	31.66	84.57	12.55	54.7				17.08					35.83	92.58	22.50	35.73	29.38	45.62	5.29	
12/12/2019	30.31	91.38	12.4	51.69				17.07					40.01	91.02	22.51	43.91	32.96	38.43	12.57	
13/12/2019	23.14	67.88	12.33	50.92				17.08					33.64	87.12	22.86	35.37	23.98	99.11	6.84	
14/12/2019	20.44	56.78	12.14	47.72				17.09	34.06	52.81	16.47		36.42	94.84	23.15	48.99	32.15	77.65	24.7	
15/12/2019	22.75	58.47	12.05	44.58				17.08	40.06	53.55	0.00		36.55	92.74	23.05	45.00	33.94	88.89	2.01	
16/12/2019	24.7	68.21	12.1	42.69				16.71	33.82	45.32	0.00		38.49	80.42	22.32	37.93	36.54	87.23	10.44	
17/12/2019	28.27	94.6	12.2	50.45				17.08	28.51	71.80	0.00		36.11	85.26	23.42	50.09	46.21	89.86	11.7	
18/12/2019	23.21	68.21	12.48	41.52				17.08	30.44	40.75	0.00		33.29	82.03	23.64	44.75	42.86	Under Maintenance	11.36	
19/12/2019	23.24	62.73	12.36	45.21				17.09	35.50	46.23	0.00		37.06	97.43	23.26	44.40	44.91		11.48	
20/12/2019	43.015	86.49	11.71125	46.99875				17.09	34.01	43.43	0.00		39.34	92.57	23.22	48.72	52.24		11.59	
21/12/2019	34.02	93.54	12.49	51.65				17.09	34.39	45.03	0.00		38.19	85.93	23.47	45.42	47.62		11.45	
22/12/2019	31.07	82.82	12.23	46.4				Under Maintenance	37.03	42.60	0.00		42.84	88.79	23.48	39.35	50.92		11.45	
23/12/2019	42.23	91.78	12.47	51.69					30.15	37.30	0.00		37.19	96.57	23.51	37.54	53.23		11.21	
24/12/2019	27.38	81.3	12.41	41.56					28.78	53.93	4.41		38.72	92.86	23.60	40.65	Power supply problem			
25/12/2019	32.36	69.18	12.1	40.62					47.20	83.79	8.62		52.36	97.43	23.77	37.41				
26/12/2019	26.3	59.07	12.08	38.21					40.40	78.64	8.33		38.15	88.03	24.27	50.73				
27/12/2019	27.24	69.56	12.29	37.43					27.68	60.27	8.25		40.55	84.74	24.24	53.22				
28/12/2019	24.84	52.51	12.17	20.83					Power supply problem				40.06	81.93	24.04	52.33				
29/12/2019	24.53	63.57	12.35	21.44									35.71	70.70	23.60	32.72				
30/12/2019	26.89	68.21	12.37	21.58									38.75	81.42	23.78	39.54				
31/12/2019	26.2	79.22	12.61	21.61					29.24	87.85	8.44		31.45	72.50	23.75	38.03				

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Dec-19	63.0	62.0
Standards	< 75	< 70

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : JANUARY, 2020

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/01/2020	34.25	80.21	12.34	Under Maintenance	Under Maintenance		15.64	17.16	34.10	50.10	8.41	Under Maintenance	45.31	92.52	23.58	27.83	Under Maintenance			
02/01/2020	29.93	73.94	12.24				18.45	17.36	40.28	55.71	8.18		43.02	96.34	23.90	46.10				
03/01/2020	25.60	61.16	12.24				22.69	16.36	35.22	71.69	8.25		38.88	88.18	24.25	58.23				
04/01/2020	28.46	62.28	12.09				20.15	17.08	46.15	99.31	8.14		46.70	96.09	24.20	62.95				
05/01/2020	27.89	89.03	11.90				12.69	17.08	32.98	95.35	8.16		36.80	84.28	24.07	43.26				
06/01/2020	28.64	83.96	12.01				11.98	17.08	32.03	68.98	8.64		40.14	87.48	24.09	47.06				
07/01/2020	29.08	95.67	12.09				13.24	17.07	30.64	61.97	3.99		35.75	90.39	24.11	42.81				
08/01/2020	24.13	80.03	13.58				20.67	17.09	29.94	64.72	4.06		33.46	80.11	24.17	40.42				
09/01/2020	25.44	63.65	13.28				22.14	17.09	34.48	98.37	3.95		35.16	89.33	24.13	60.57				
10/01/2020	30.79	82.08	12.38				10.26	17.08	34.50	79.55	3.93		39.73	90.35	23.43	56.62				
11/01/2020	34.33	78.10	12.57				10.94	17.07	32.27	70.93	3.96		41.62	96.34	23.94	52.07				
12/01/2020	30.31	84.87	13.05				18.76	17.63	25.15	46.10	3.92		35.63	85.06	24.28	34.80				
13/01/2020	25.44	56.66	13.04				26.35	16.30	25.98	64.49	3.98		27.37	59.77	24.13	30.16				
14/01/2020	15.34	46.80	12.68				16.95	17.07	18.39	78.21	3.98		24.11	67.57	24.68	40.30				
15/01/2020	16.07	38.51	12.42				18.94	16.74	27.33	85.76	3.85		28.73	76.83	24.35	46.95				
16/01/2020	15.68	59.62	12.32				23.64	17.08	26.01	71.98	3.85		23.13	69.34	24.34	41.35				
17/01/2020	18.71	47.49	11.93	24.75			18.74	17.08	26.96	78.73	3.84		36.85	93.44	24.86	70.29				
18/01/2020	29.53	71.51	11.76	24.22			19.68	17.08	44.76	85.47	3.91		62.73	78.48	24.55	67.57				
19/01/2020	31.54	82.28	11.83	25.79			12.44	17.08	36.68	86.27	3.90		46.93	95.55	24.49	59.87				
20/01/2020	27.35	79.22	12.35	26.71			17.84	17.08	29.54	63.88	3.83		33.75	93.76	24.28	50.52				
21/01/2020	31.24	97.43	12.80	27.39			16.94	17.07	37.97	93.93	3.81		37.36	80.59	24.58	47.96				
22/01/2020	22.60	59.65	12.27	27.33			13.25	17.08	35.22	94.43	3.84		38.62	84.65	24.67	54.40				
23/01/2020	28.81	73.01	12.21	28.78			22.54	16.71	38.36	95.24	3.95		40.13	89.67	24.95	70.04				
24/01/2020	31.43	79.24	12.43	30.02			29.65	17.09	32.74	86.34	4.00		41.42	94.21	24.68	60.59				
25/01/2020	32.63	69.31	12.31	24.97			23.46	17.08	39.67	90.65	4.02		42.93	78.89	25.37	70.22				
26/01/2020	35.82	87.16	12.53	24.40			16.64	17.07	35.03	99.28	3.98		41.51	77.78	24.82	43.89				
27/01/2020	28.33	89.85	12.70	23.20			18.97	17.07	Under Maintenance				27.66	60.15	24.82	36.48				
28/01/2020	15.14	58.38	12.26	22.92			19.38	17.08					18.04	70.84	24.89	38.36				
29/01/2020	10.78	32.15	11.97	23.50			24.89	17.06					13.67	60.48	24.90	38.30				
30/01/2020	23.57	56.92	12.07	27.00			17.49	17.08					29.22	76.91	24.98	50.21				
31/01/2020	29.32	79.60	12.21	17.31			23.68	16.74	36.54	87.15	3.73		32.31	90.60	25.05	55.22				

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Jan-20	64.0	63.0
Standards	**< 75**	**< 70**

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : FEBRUARY, 2020

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/02/2020	29.55	68.67	12.09	11.51			23.2	17.08	35.41	89.74	4.58		41.08	99.12	24.8	62.58				
02/02/2020	29.83	72.16	12.44	10.75			11.5	17.08	30.26	95.64	3.96		36.27	99.03	24.48	38.85				
03/02/2020	20.84	50.59	12.61	10.48			25.41	17.07	29.81	92.38	3.78		31.84	73.46	24.55	38.91				
04/02/2020	23.88	59.91	12.26	10.46			28.01	17.09	36.54	86.54	5.23		31.33	74.18	24.73	49.56				
05/02/2020	26.65	54.53	12.03	11.48			19.68	17.08	39.732	85.64	3.92		40.83	96.76	25.6	72.19				
06/02/2020	23.22	57.45	11.91	10.59			29.49	17.06	34.87	92.14	3.88		32.23	93.37	25.25	65.9				
07/02/2020	33.79	97.34	12.27	13.19			28.54	17.07	34.51	87.45	4.87		27.81	80.93	24.72	53.04				
08/02/2020	32.98	92.04	12.25	13.88			34.51	17.08	29.87	79.85	4.23		34.72	81.55	25.11	52.6				
09/02/2020	28.82	78.74	12.04	11.29			21.57	17.08	40.24	92.28	3.98		34.27	86.89	24.98	35.38				
10/02/2020	22.57	52.86	12.03	9.9			29.87	17.07	41.26	96.37	3.78		37.3	84.3	25.05	55.22				
11/02/2020	26.07	79.94	12.37	10.31			23.92	17.07	36.21	89.65	4.02		37.97	87.95	25.45	61.05				
12/02/2020	22.36	61.24	12.34	10.05			15.43	17.08	28.54	87.45	4.87		39.3	83.24	25.72	71.9				
13/02/2020	27.21	83.12	12.33	10.71			19.87	17.07	38.94	91.24	3.81		36.71	96.41	25.72	53.88				
14/02/2020	23.27	56.2	12.05	9.43			34.51	17.08	35.3	96.85	3.87		48.44	95.47	26.24	75.03				
15/02/2020	26.46	65.82	12.03	9.92	Under Maintenance		28.45	17.06	36.78	89.64	3.82	Under Maintenance	42.11	89.63	26.17	69.38	Under Maintenance			
16/02/2020	26.16	68.77	12.05	9.74			24.15	17.07	36.33	90.57	3.94		43.81	97.84	25.66	60.28				
17/02/2020	41.18	97.7	12.26	9.25			13.48	17.08	40.56	99.33	3.99		48.79	86.34	25.54	50.25				
18/02/2020	40.45	91.65	12.66	9.9			31.24	17.06	33.7	89.69	3.94		40.39	89.72	25.91	54.99				
19/02/2020	42.41	99.36	12.95	10.58			21.58	17.07	39.14	94.76	3.95		41.8	95.28	25.3	40.07				
20/02/2020	30.35	82.77	12.53	9.63			19.87	17.08	30.785	74.2175	3.92		33.81	89.97	25.74	42.62				
21/02/2020	19.14	57.84	12.33	10.02			23.73	17.07	Under Maintenance				33.31	84.11	26.03	61.06				
22/02/2020	25.3	71.46	12.37	9.85			31.6	17.07					40.46	97.78	26.21	68.55				
23/02/2020	29.99	84.58	12.28	9.13			27.53	17.07					36.71	88.38	25.91	47.98				
24/02/2020	30.99	93.52	12.6	9.42			22.13	17.08					41.01	97.43	26.18	45.18				
25/02/2020	24.41	71.93	12.5	8.22			27.81	17.07					35.85	92.38	26.48	52.82				
26/02/2020	26	73.89	12.41	12.66			18.73	17.07					35.87	82.54	26.05	61.06				
27/02/2020	24.72	90.41	12.57	21.31			23.09	17.08					40.2	93.68	25.91	62				
28/02/2020	29.18	97.44	12.64	20.89			39.58	17.06					38.05	87.46	25.77	54.87				
29/02/2020	31.33	99.86	12.9	21.68			34.17	17.065	31.57	97.83	6.44		36.65	98.77	26.39	66.58				

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Feb-20	64.0	63.0
Standards	**< 75**	**< 70**

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : MARCH, 2020

Location	Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX	PM2.5	PM10	SO2	NOX
01/03/2020	19.68	55.49	12.49	21.06			9.41	11.36	27.87	92.72	3.80		19.66	85.26	26.12	52.36				
02/03/2020	19.59	63.07	12.82	20.78			9.42	37.62	25.86	72.47	3.81		32.69	98.97	25.95	42.45				
03/03/2020	19.13	64.99	12.67	20.60			9.41	21.48	21.84	62.87	3.97		25.54	84.41	26.39	38.91				
04/03/2020	28.02	84.53	12.97	21.21			9.22	20.23	23.95	69.77	4.86		25.31	80.22	26.17	31.99				
05/03/2020	16.95	66.58	12.54	20.13			9.42	16.22	22.38	66.44	3.81		27.06	91.21	26.4	41.87				
06/03/2020	24.29	91.14	13.34	20.29			9.42	14.76	17.33	62.09	3.73		20.29	78.84	25.78	34.79				
07/03/2020	20.24	85.87	12.95	20.18			9.41	14.54	21.07	76.29	3.82		21.41	98.1	26.3	38.27				
08/03/2020	14.86	47.04	12.55	19.26			9.43	22.64	23.98	87.95	3.85		31.81	88.1	26.22	58.34				
09/03/2020	17.89	69.62	12.58	18.81			9.42	18.35	20.79	89.43	3.82		29.23	75.4	26.12	37.93				
10/03/2020	21.75	66.33	13.04	19.36			9.42	24.68	PC Problem				26.99	57.27	25.83	23.73				
11/03/2020	10.44	41.60	12.72	18.34			9.04	17.67					17.51	46.18	25.88	28.76				
12/03/2020	11.68	39.63	12.59	18.64			9.42	15.37	17.89	88.43	3.76		21.67	53.86	25.69	38.24				
13/03/2020	14.36	51.66	12.43	18.58			9.24	20.93	31.30	86.92	3.88		20.38	67.89	25.4	37				
14/03/2020	20.65	66.41	12.37	18.64			9.23	23.23	31.82	85.72	3.85		31.41	91.27	26.73	44.89				
15/03/2020	31.77	89.54	12.79	20.00			9.43	14.01	26.40	82.22	3.87		37.44	97.34	26.09	49.54				
16/03/2020	29.64	91.87	12.63	20.03	Under Maintenance		9.43	17.38	26.42	80.57	3.76	Under Maintenance	35.33	89.75	26.2	56.53	Under Maintenance			
17/03/2020	24.20	68.44	12.55	19.47			9.42	16.63	32.55	84.22	3.87		46.93	85.21	26.27	62.32				
18/03/2020	18.10	50.93	12.53	19.02			9.43	25.07	30.12	85.76	3.97		39.97	83.1	26.39	65.33				
19/03/2020	21.06	73.30	12.83	20.15			9.43	14.56	21.68	81.65	4.02		22.27	76.49	26.16	48.48				
20/03/2020	21.58	93.62	12.99	21.25			9.42	19.26	PC Problem				26.52	94.85	25.92	36.07				
21/03/2020	18.02	78.78	12.95	21.29			9.42	28.80					17.79	57.83	26.46	28.56				
22/03/2020	13.40	40.57	12.89	20.58			9.43	15.49	20.65	67.88	12.42		17.29	37.85	26.44	17.38				
23/03/2020	11.32	30.82	12.75	18.99			9.43	23.86	20.41	59.49	12.00		22.21	49.71	26.9	19.99				
24/03/2020	58.90	67.27	12.88	18.84			9.23	11.98	25.53	61.06	12.04		27.09	58.63	27.02	21.54				
25/03/2020		42.47	12.92	18.94			9.42	15.94	20.45	50.12	11.67		24.73	40.75	26.95	11.78				
26/03/2020		28.28	12.95	18.77			9.43	23.41	13.25	33.28	11.69		17.88	27.78	26.99	7.35				
27/03/2020	Under	26.70	12.74	18.66			9.43	26.59	17.55	46.16	12.19		16	26.35	27.27	9.13				
28/03/2020	Maintena	34.67	12.64	17.91			9.42	20.08	18.01	51.31	12.28		16.2	28.58	27.24	10.88				
29/03/2020	nce	33.43	12.60	16.83			9.43	23.16	18.49	44.86	12.28		17.49	30.8	26.68	9.21				
30/03/2020		50.32	12.83	16.95			9.43	23.09	18.96	45.59	12.03		20.33	31.22	26.28	9.77				
31/03/2020		34.16	13.10	17.02			PC Problem		14.80	35.62	12.23		15.84	23.23125	27.04792	17.30958				

All values are in µg/M3

Ambient Noise Level in Leq dB(A): at the boundary line of the plant

Month	Day Time	Night Time
Mar-20	64.0	63.0
Standards	< 75	< 70

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V. M. Waghchaure
GM (Environment)

JSW STEEL LIMITED

Integrated Steel Mill Complex

Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

A) STACK EMISSION :

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Flow rate of the flue gas m/sec	Parameters mg/Nm^3			
									Particulate Matter (PM)	SO_2	NOx	CO
I	**Hot Strip Mill Plant**					**Plant Capacity: 3.0 MTPA**						
1	GCP - I Stack	SMS Furnace	70.5	5.5	Bag Filters	15/10/2019 09:35Hrs	9367.00	17.83	49.51	3.29	19.23	NA
						06/11/2019 10:59 Hrs	2854.00	17.44	42.12	1.85	0.00	NA
						18/12/2019 11:09 Hrs	8834.00	17.17	12.14	NA	NA	22.13
						10/01/2020 11:00Hrs	9496.0	16.06	24.58	NA	NA	NA
						01/02/2020 10:00Hrs	9356.0	16.49	9.09	1.3	1.7	10.0
						16/03/2020 10:45Hrs	9498.0	16.55	21.38	1.1	1.6	8.9
2	GCP - II Stack	SMS Furnace	70.5	5.5	Bag Filters	01/10/2019 14:23Hrs	9420.00	9.73	25.98	5.12	0.01	NA
						01/11/2019 15:40 Hrs	8149.00	8.31	23.56	<1	<1	NA
						18/12/2019 08:56 Hrs	8834.00	8.54	7.84	0.20	0.10	28.25
						01/01/2020 16:00Hrs	9319.0	7.71	16.72	<1	<1	NA
						05/02/2020 15:20Hrs	9333.0	11.48	23.56	<1	<1	NA
						16/03/2020 14:15Hrs	9498.0	4.35	11.84	<1	<1	NA
3	GCP - III Stack	SMS Furnace	66.5	3.3	Bag Filters	15/10/2019 09:58Hrs	9367.00	15.23	4.20	<1	<1	NA
						19/11/2019 15:29 Hrs	8620.00	15.66	4.47	<1	<1	NA
						23/12/2019 15:08 Hrs	8694.00	15.44	6.16	61.03	10.47	2.99
						02/01/2020 15:53Hrs	9236.0	11.34	12.97	<1	<1	NA
						19/02/2020 16:00Hrs	9878.0	17.81	26.88	<1	<1	NA
						16/03/2020 14:15Hrs	9498.0	4.83	31.13	<1	<1	NA
4	Tunnel Furnace - I - A Stack	Tunnel Furnace	50	1.5	Blower	05/10/2019 16:15Hrs	9071.0	12.11	3.89	132.7	43.86	NA
						09/11/2019 11:30Hrs	4929.0	12.33	8.80	20.7	11.93	NA
						04/12/2019 16:00 Hrs	8199.0	12.03	3.97	285.6	41.48	0.1
						14/01/2020 15:30Hrs	8751.0	11.55	9.10	245.3	61.20	<1
						15/02/2020 11:05Hrs	10077.0	10.88	5.40	183.6	231.67	<1
						14/03/2020 10:40Hrs	8994.0	10.90	10.05	145.0	93.95	<1

Preapared By
P.P.Nandusekar
Asst. Manager (Environment)

Checked By
V M Waghchaure
GM (Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Flow rate of the flue gas m/sec	Parameters mg/Nm^3			
									Particulate Matter (PM)	SO_2	NOx	CO
5	Tunnel Furnace - I - B Stack	Tunnel Furnace	50	1.5	Blower	05/10/2019 10:45Hrs	9071.0	14.24	10.00	221.1	43.90	NA
						12/11/2019 14:30Hrs	9328.0	14.25	3.91	129.7	141.15	NA
						03/12/2019 09:45 Hrs	8731.0	14.24	9.99	71.7	25.33	32.3
						14/01/2020 16:30Hrs	8751.0	11.35	7.80	71.7	25.33	32.3
						15/02/2020 14:15Hrs	10077.0	9.86	4.50	417.1	182.36	<1
						14/03/2020 12:15Hrs	8994.0	10.79	8.89	285.9	87.20	<1
6	Tunnel Furnace - II - A Stack	Tunnel Furnace	50	1.5	Blower	06/10/2019 16:30Hrs	9065.0	12.83	6.54	130.9	32.54	NA
						09/11/2019 12:30Hrs	4929.0	13.83	6.52	12.9	5.95	NA
						13/12/2019 14:30 Hrs	8183.0	12.17	6.50	150.3	44.49	0.1
						14/01/2020 10:30Hrs	8751.0	7.46	10.60	148.5	40.20	<1
						24/02/2020 14:30Hrs	9928.0	10.08	8.80	362.0	289.43	<1
						13/03/2020 10:30Hrs	8739.0	9.42	3.56	2.9	29.90	<1
7	Tunnel Furnace - II - B Stack	Tunnel Furnace	50	1.5	Blower	06/10/2019 08:45Hrs	9065.0	13.26	7.14	7.2	40.48	NA
						14/11/2019 15:30Hrs	9441.0	12.47	6.81	132.5	44.79	NA
						14/12/2019 09:30 Hrs	8453.0	13.26	6.77	218.9	35.10	27.7
						14/01/2020 11:45Hrs	8751.0	9.36	11.70	216.3	32.20	27.7
						24/02/2020 15:40Hrs	9928.0	9.36	9.60	401.5	236.84	<1
						13/03/2020 12:25Hrs	8739.0	10.34	6.35	289.8	184.00	<1
8	18 TPH Boiler Stack	Boiler	65	1.8	Blower	15/10/2019 11:45Hrs	36.0	13.11	12.46	253.2	35.66	NA
						08/11/2019 12:23Hrs	220.0	13.56	12.33	NA	NA	NA
						12/12/2019 11:33Hrs	208.0	13.08	8.80	169.0	25.30	16.7
						11/01/2020 14:20Hrs	174.0	6.33	42.50	170.0	26.00	17.0
						26/02/2020 11:30Hrs	7.0	7.96	26.33	160.0	83.00	17.0
						20/03/2020 10:45Hrs	106.0	5.99	18.79	146.2	72.10	14.6
9	De-Dusting System Stack	Lime & Coke Handling System	30	1.9	Bag Filters	04/10/2019 16:25Hrs	7733.0	14.33	42.18	NA	NA	NA
						08/11/2019 16:22Hrs	8816.0	14.12	28.14	NA	NA	NA
						25/12/2019 10:28Hrs	9864.0	14.33	32.56	NA	NA	NA
						15/01/2020 16:14Hrs	9565.0	8.60	45.80	NA	NA	NA
						25/02/2020 14:00Hrs	9854.0	11.15	32.15	NA	NA	NA
						20/03/2020 14:25Hrs	9727.0	10.74	35.26	NA	NA	NA
							CPCB Norms		<100	NA	50.00	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
II	**Lime Calcination Plant**					**Plant Capacity: 0.44 MTPA**						
1	Lime Stone De-dusting system stack for Kiln I & II	Lime Stone Hopper	41.5	0.825	Bag Filters	Due to rainy season operation is not required due to high moisture in raw material.						
						16/01/2020 12:14Hrs	402	6	40	NA	NA	NA
						18/02/2020 14:15Hrs	526	8	24	NA	NA	NA
						18/03/2020 14:30Hrs	598	7	15	NA	NA	NA
2	Kiln - I Stack	Kiln - I	48.7	0.914	Bag Filters	01/10/2019 15:08Hrs	215.0	20.54	3.52	10.2	32.34	51.8
						20/11/2019 15:57Hrs	243.0	12.18	18.77	0	33.0	43.63
						10/12/2019 09:37Hrs	213.0	16.53	16.52	10.2	30.75	27.8
						16/01/2020 11:50Hrs	201.0	14.0	20.33	11.20	28.6	25.6
						18/02/2020 10:45Hrs	264.0	22.5	24.33	10.20	38.5	15.6
						18/03/2020 12:35Hrs	291.0	18.9	22.56	8.60	24.5	12.4
3	Kiln - II Stack	Kiln - II	48.7	0.914	Bag Filters	09/10/2019 09:12Hrs	289.0	17.92	4.66	8.1	43.46	43.6
						03/11/2019 13:20Hrs	300.0	13.56	25.76	0	24.5	40.13
						03/12/2019 15:20Hrs	189.0	15.11	21.69	23.6	11.13	7.1
						16/01/2020 11:05Hrs	201.0	6.6	26.88	23.56	10.1	5.6
						18/02/2020 11:35Hrs	262.0	17.6	28.69	26.54	11.2	6.5
						18/03/2020 11:45Hrs	307.0	23.2	28.45	21.40	8.6	4.7
4	Lime De-dusting system Stack for Kiln I & II	Lime Storage Hopper	25.5	0.825	Bag Filters	05/10/2019 12:15Hrs	414.0	12.2	22.39	NA	NA	NA
						02/11/2019 10:40Hrs	519.0	12.3	15.66	NA	NA	NA
						23/12/2019 15:15Hrs	543.0	11.40	28.23	NA	NA	NA
						20/01/2020 11:40Hrs	389.0	12.6	28.94	NA	NA	NA
						18/02/2020 12:25Hrs	526.0	11.9	32.10	NA	NA	NA
						18/03/2020 11:45Hrs	598.0	12.5	25.66	NA	NA	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
5	Lime Stone De-dusting system stack for Kiln III	Lime Stone Hopper	35	1.4	Bag Filters	Due to rainy season operation is not required due to high moisture in raw material.						
						20/01/2020 10:20Hrs	458	7	21	NA	NA	NA
						17/02/2020 14:00Hrs	550	6	15	NA	NA	NA
						19/03/2020 14:20Hrs	544	6	12	NA	NA	NA
6	Kiln - III Stack	Kiln - III	60	1.3	Bag Filters	11/10/2019 12:15Hrs	544	14.56	16.76	0.06	34.44	132
						02/11/2019 16:30Hrs	279	13.56	12.99	0.04	4.24	NA
						10/12/2019 08:45Hrs	445	15.23	16.85	0.22	30.64	41
						21/01/2020 10:45Hrs	396.0	13.70	31.22	12.2	28.77	18.6
						17/02/2020 11:15Hrs	550.0	21.29	28.23	16.5	32.21	10.2
						19/03/2020 10:35Hrs	544.0	21.60	31.25	15.4	26.21	9.4
7	Quick Lime & Lime De-dusting system Stack for Kiln III	Lime Storage Hopper	31	0.960	Bag Filters	08/10/2019 12:35Hrs	540.0	12.47	12.45	NA	NA	NA
						04/11/2019 09:54Hrs	411.0	13.26	22.45	NA	NA	NA
						10/12/2019 15:43Hrs	363.0	11.36	18.12	NA	NA	NA
						16/01/2020 11:34Hrs	381.0	6.26	20.20	NA	NA	NA
						17/02/2020 12:20Hrs	550.0	11.03	18.56	NA	NA	NA
						19/03/2020 11:35Hrs	544.0	12.06	17.20	NA	NA	NA
							CPCB Norms		<100	NA	100	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
III	**Sponge Iron Plant**					**Plant Capacity: 2.0 MTPA**						
1	Flue Gas Ejector Stack	Reformer	40	2.851	I.D Fan	14/10/2019 10:45Hrs	1205.0	35.2	8.02	0.3	32.0	6.3
						01/11/2019 12:45Hrs	3549.0	32.5	5.11	0.1	31.8	5.9
						03/12/2019 11:15 Hrs	3919.0	37.6	2.44	0.1	31.8	5.9
						23/01/2020 11:15Hrs	3598.0	28.0	5.60	<1	30.1	8.6
						25/02/2020 11:40Hrs	3502.0	32.2	5.60	<1	30.1	8.6
						02/03/2020 14:15Hrs	3895.0	38.2	10.50	<1	24.1	2.3
2	Furnace Dust Collector Stack	Furnace	30	0.9	Cyclone & Venturi Scrubber	14/10/2019 09:30Hrs	1205.0	11.5	7.11	NA	NA	NA
						06/11/2019 16:45Hrs	1923.0	12.4	24.77	NA	NA	NA
						06/12/2019 10:30 Hrs	3831.0	12.3	5.53	NA	NA	NA
						04/01/2020 16:15Hrs	3510.0	13.9	48.90	NA	NA	NA
						04/02/2020 12:40Hrs	3400.0	12.0	38.77	NA	NA	NA
						09/03/2020 10:15Hrs	4079.0	16.1	31.63	NA	NA	NA
3	Screen Dust Collector Stack I	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	09/10/2019 11:19Hrs	3108.0	12.7	18.26	NA	NA	NA
						19/11/2019 16:30Hrs	2400.0	12.86	13.93	NA	NA	NA
						06/12/2019 15:00 Hrs	3831.0	12.66	7.23	NA	NA	NA
						04/01/2020 10:15Hrs	3510.0	8.27	30.56	NA	NA	NA
						04/02/2020 10:20Hrs	3400.0	8.27	30.56	NA	NA	NA
						Not don due to Covid 19						
4	Screen Dust Collector Stack II	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	02/10/2019 10:00Hrs	2876.0	12.75	16.05	NA	NA	NA
						19/11/2019 12:30Hrs	2389.0	12.45	29.86	NA	NA	NA
						04/12/2019 10:45 Hrs	3819.0	13.25	16.13	NA	NA	NA
						03/01/2020 15:15Hrs	3498.0	8.19	45.77	NA	NA	NA
						04/02/2020 15:45Hrs	3400.0	12.33	41.22	NA	NA	NA
						09/03/2020 12:15Hrs	4079.0	12.72	42.35	NA	NA	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
5	Product Silo Dust Collector Stack	Product Silo	30	0.9	Venturi Scrubber	02/10/2019 14:00Hrs	2876.00	11.88	16.75	NA	NA	NA
						18/11/2019 12:30Hrs	2400.00	12.69	16.10	NA	NA	NA
						02/12/2019 14:45 Hrs	3952.00	12.69	16.13	NA	NA	NA
						01/01/2020 16:15Hrs	3600.0	7.9	23.44	NA	NA	NA
						25/02/2020 16:15Hrs	3502.0	10.9	22.13	NA	NA	NA
						Not don due to Covid 19						
6	Screen Dust Collector Stack C304	Prodct screen Area	30	0.9	Venturi Scrubber	07/10/2019 09:15Hrs	2989.00	12.44	14.53	NA	NA	NA
						05/11/2019 12:15Hrs	2462.0	12.4	19.88	NA	NA	NA
						04/12/2019 12:45 Hrs	3819.0	13.3	21.33	NA	NA	NA
						04/01/2020 11:30Hrs	3510.0	6.6	25.50	NA	NA	NA
						04/02/2020 14:20Hrs	3400.0	11.6	28.67	NA	NA	NA
						09/03/2020 11:20Hrs	4079.0	12.0	38.12	NA	NA	NA
							CPCB Norms		< 50		NA	10000
IV	**Blast Furnace Plant**						**Plant Capacity: 3.5 MTPA**					
1	De-Dusting System Stack I	Stock House	45	2.5	Bag Filters	09/10/2019 16:22Hrs	9389.0	14.6	32.6	NA	NA	NA
						15/11/2019 09:15Hrs	9927.0	11.3	25.4	NA	NA	NA
						24/12/2019 10:18Hrs	10512.0	15.7	38.8	NA	NA	NA
						15/01/2020 12:00Hrs	9812.0	4.8	66.9	NA	NA	NA
						10/02/2020 11:30Hrs	10311.0	10.7	38.3	NA	NA	NA
						14/03/2020 09:34Hrs	10314.5	9.0	47.2	NA	NA	NA
2	De-Dusting System Stack II	Stock House	45	2.5	Bag Filters	12/10/2019 11:28Hrs	9479.0	4.4	9.7	NA	NA	NA
						15/11/2019 09:17Hrs	9927.0	4.1	10.1	NA	NA	NA
						18/12/2019 10:30 Hrs	10113.0	5.3	19.4	NA	NA	NA
						15/01/2020 10:25Hrs	9812.0	5.3	22.0	NA	NA	NA
						10/02/2020 12:45Hrs	10311.0	7.4	35.7	NA	NA	NA
						14/03/2020 14:03Hrs	10314.5	5.2	13.0	NA	NA	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
3	Stove Stack	Blast Furnace Stove	75	5	Heat Exchanger	14/10/2019 15:22Hrs	9473.0	16.3	2.1	16.53	51.78	12.45
						08/11/2019 09:13Hrs	8568.0	16.5	9.3	14.50	44.21	11.30
						24/12/2019 12:25Hrs	10512.0	16.9	12.1	NA	NA	NA
						03/01/2020 12:00Hrs	3674.0	14.3	15.8	10.20	4.01	7.7
						26/02/2020 14:20 Hrs	10148.0	14.3	12.6	15.20	6.50	4.8
						20/03/2020 15:40Hrs	1063.1	16.2	15.7	14.20	5.10	3.4
4	De-Dusting System Cast House	Cast House	45	5.5	Bag Filters	12/10/2019 09:26Hrs	9479.0	13.9	6.7	NA	NA	NA
						15/11/2019 09:15Hrs	9927.0	11.3	25.4	NA	NA	NA
						19/12/2019 10:52 Hrs	10275.0	10.7	25.6	NA	NA	NA
						01/01/2020 10:00Hrs	10213.0	12.1	23.2	NA	NA	NA
						11/02/2020 12:05Hrs	10198.0	15.9	25.6	NA	NA	NA
						13/03/2020 15:13Hrs	10128.0	14.4	8.3	NA	NA	NA
5	16 TPH Boiler Stack	16 TPH Boiler	59.5	1.2	Blower	15/10/2019 14:22Hrs	154.0	12.4	10.3	38.79	104.12	2.00
						09/11/2019 10:05Hrs	71.0	13.8	12.3	32.21	95.21	0.30
						24/12/2019 15:35Hrs	46.0	13.3	10.5	52.10	31.00	15.00
						21/01/2020 14:45Hrs	32.0	6.7	23.6	43.21	28.30	10.20
						26/02/2020 10:15Hrs	8.4	11.9	19.6	23.54	21.02	5.60
						20/03/2020 12:15Hrs	166.0	12.4	11.3	21.30	18.40	4.10
							CPCB Norms		<50	250.0	150	10000

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									Particulate Matter (PM)	SO_2	NOx	CO
V	**Sinter Plant -I**					**Plant Capacity: 2.8 MTPA**						
1	Fuel Bag Filter Stack	Fuel Raw Material Crushing House	40	1.804	Bag Filters	19/10/2019 09:58Hrs	6958.0	14.42	25.56	NA	NA	NA
						07/11/2019 09:50Hrs	3034.0	13.84	25.88	NA	NA	NA
						26/12/2019 10:05Hrs	6269.0	14.36	23.56	NA	NA	NA
						18/01/2020 11:30Hrs	7342.0	12.32	23.20	NA	NA	NA
						13/02/2020 10:15Hrs	7144.0	10.04	18.77	NA	NA	NA
						11/03/2020 10:05Hrs	7814.0	12.46	24.16	NA	NA	NA
2	Flux ESP Stack	Raw Material Crushing & Screening House	50	2.404	Electrostatic Precipitators	19/10/2019 12:04Hrs	6958.0	14.39	29.77	NA	NA	NA
						07/11/2019 11:48Hrs	3034.0	14.61	32.56	NA	NA	NA
						26/12/2019 12:00Hrs	6269.0	15.66	26.53	NA	NA	NA
						18/01/2020 14:30Hrs	7342.0	10.58	29.44	NA	NA	NA
						19/02/2020 12:20Hrs	7092.0	5.84	27.15	NA	NA	NA
						12/03/2020 11:00Hrs	7375.0	6.46	28.44	NA	NA	NA
3	Propotioning ESP Stack	Propotioning House	50	2.404	Electrostatic Precipitators	19/10/2019 15:28Hrs	6958.0	15.58	42.19	NA	NA	NA
						07/11/2019 14:10Hrs	3034.0	15.63	38.77	NA	NA	NA
						26/12/2019 15:15Hrs	6269.0	14.15	38.22	NA	NA	NA
						12/01/2020 11:30Hrs	7617.0	10.30	53.55	NA	NA	NA
						12/02/2020 14:45Hrs	7209.0	6.21	32.56	NA	NA	NA
						12/03/2020 12:30Hrs	7375.0	6.44	42.13	NA	NA	NA
4	Main Stack	Sintering House	140	4.200	Electrostatic Precipitators	17/10/2019 11:57Hrs	6253	16.41	41.79	26.2	7.1	42.6
						16/11/2019 09:40Hrs	7110.0	17.46	18.62	35.21	9.60	39.7
						02/12/2019 09:17 Hrs	7497.0	17.89	18.76	123.10	23.50	16.4
						14/01/2020 10:00Hrs	7827.0	14.29	22.13	0.66	8.07	464.1
						19/02/2020 11:20Hrs	7092.0	7.99	32.56	0.66	8.07	464.1
						11/03/2020 11:05Hrs	7814.0	16.70	15.04	90.12	27.06	16.2

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									Particulate Matter (PM)	SO_2	NOx	CO
5	Product Sinter Sizing & Discharge End ESP Stack	Product Sinter Sizing House & Product Discharge End	60	4.508	Electrostatic Precipitators	10/10/2019 12:11Hrs	3964.0	17.17	45.66	NA	NA	NA
						07/11/2019 16:28Hrs	3034.0	16.14	41.22	NA	NA	NA
						26/12/2019 16:28Hrs	6269.0	17.56	43.26	NA	NA	NA
						06/01/2020 14:30Hrs	7307.0	13.96	65.80	NA	NA	NA
						26/02/2020 12:25Hrs	5973.0	12.34	45.63	NA	NA	NA
						12/03/2020 14:20Hrs	7375.0	12.75	45.86	NA	NA	NA
							CPCB Norms		<150	NA	NA	NA
VI	**Sinter Plant -II**							**Plant Capacity: 2.5 MTPA**				
1	Main ESP	Sinter Machine	85	5.5	Electrostatic Precipitators	01/10/2019 10:00Hrs	6869.0	11.0	21.5	58.8	18.8	46.9
						21/11/2019 16:02Hrs	7776.0	16.2	15.9	44.5	20.4	1.2
						09/12/2019 09:26 Hrs	7819.0	12.9	24.4	147.2	43.5	23.1
						09/01/2020 11:00Hrs	5959.0	17.1	14.9	136.2	40.3	20.1
						26/02/2020 14:30Hrs	7661.0	15.1	15.6	124.2	45.6	18.5
						06/03/2020 11:00Hrs	7305.0	4.8	26.4	103.1	36.2	12.3
2	Bag Filter- 1 (Flux/Fuel Crush Or Building	Crusher Building	35	4.7	Bag Filters	21/10/2019 10:11Hrs	8392.0	12.1	10.4	NA	NA	NA
						11/11/2019 10:05Hrs	8566.0	12.9	15.4	NA	NA	NA
						21/12/2019 10:08Hrs	7503.0	13.3	12.2	NA	NA	NA
						07/01/2020 10:45Hrs	8397.0	5.4	22.5	NA	NA	NA
						06/02/2020 12:15Hrs	8375.0	5.8	15.4	NA	NA	NA
						05/03/2020 14:20Hrs	8211.0	5.9	8.1	NA	NA	NA
3	Bag Filter- 2 (Flux/Fuel Screen Building)	Screen Building	35	1.4	Bag Filters	22/10/2019 11:58Hrs	6047.0	12.4	33.4	NA	NA	NA
						12/11/2019 10:07Hrs	9024.0	12.2	35.9	NA	NA	NA
						20/12/2019 10:25Hrs	5824.0	12.2	41.2	NA	NA	NA
						07/01/2020 14:10Hrs	8397.0	5.0	23.9	NA	NA	NA
						07/02/2020 12:25Hrs	7872.0	11.5	40.2	NA	NA	NA
						07/03/2020 12:00Hrs	7349.0	10.7	32.2	NA	NA	NA

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Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Flow rate of the flue gas m/sec	Parameters mg/Nm^3			
									Particulate Matter (PM)	SO_2	NOx	CO
4	Bag Filter- 3(Near Sinter Product Screen Building)	Sinter Product Screen Building	29	1.0	Bag Filters	22/10/2019 14:12Hrs	6047.0	11.8	12.6	NA	NA	NA
						12/11/2019 12:24Hrs	9024.0	12.4	13.7	NA	NA	NA
						20/12/2019 12:05Hrs	5824.0	13.9	11.5	NA	NA	NA
						Not in Operation due Maintenace						
						06/02/2020 14:05Hrs	8375.0	5.3	16.5	NA	NA	NA
						05/03/2020 11:45Hrs	8211.0	5.4	3.5	NA	NA	NA
5	Bag Filter- 4 (Near Sinter Product Crusher & HLQRF)	Sinter Product Crusher & HLQRF	22	0.9	Bag Filters	21/10/2019 15:22Hrs	8392.0	12.3	22.2	NA	NA	NA
						11/11/2019 14:15Hrs	8566.0	13.3	26.0	NA	NA	NA
						21/12/2019 14:00Hrs	7503.0	13.5	28.8	NA	NA	NA
						07/01/2020 15:10Hrs	8397.0	7.3	33.3	NA	NA	NA
						06/02/2020 15:10Hrs	8375.0	6.0	29.6	NA	NA	NA
						06/03/2020 12:20Hrs	7305.0	11.5	11.9	NA	NA	NA
6	Bag Filter- 5 (Near Banker House & JHO8)	Banker House & JHO8	32	0.9	Bag Filters	22/10/2019 10:02Hrs	6047.0	12.4	29.3	NA	NA	NA
						11/11/2019 16:29Hrs	8566.0	12.5	31.8	NA	NA	NA
						21/12/2019 16:05Hrs	7503.0	11.4	35.7	NA	NA	NA
						21/01/2020 11:30Hrs	7894.0	4.8	19.2	NA	NA	NA
						07/02/2020 14:10Hrs	7872.0	8.4	36.9	NA	NA	NA
						07/03/2020 10:40Hrs	7349.0	11.1	27.2	NA	NA	NA
7	Bag Filter- 6(Banker House)	Banker House	33.5	1.0	Bag Filters	23/10/2019 11:42Hrs	5345.0	12.3	18.7	NA	NA	NA
						12/11/2019 16:32Hrs	9024.0	13.4	24.6	NA	NA	NA
						20/12/2019 16:05Hrs	5824.0	12.2	17.7	NA	NA	NA
						07/01/2020 12:30Hrs	8397.0	5.0	23.9	NA	NA	NA
						06/02/2020 10:45Hrs	8375.0	5.5	28.8	NA	NA	NA
						06/03/2020 12:00Hrs	7305.0	6.0	18.8	NA	NA	NA

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Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Flow rate of the flue gas m/sec	Parameters mg/Nm^3			
									Particulate Matter (PM)	SO_2	NOx	CO
8	Bag Filter- 7 (Fuel Storage Crusher Building)	Fuel Storage Crusher Building	33.5	0.8	Bag Filters	21/10/2019 12:08Hrs	8392.0	13.3	18.6	NA	NA	NA
						11/11/2019 12:01Hrs	8566.0	12.6	21.3	NA	NA	NA
						21/12/2019 11:58Hrs	7503.0	14.5	19.9	NA	NA	NA
						07/01/2020 12:45Hrs	8397.0	6.1	25.0	NA	NA	NA
						07/02/2020 11:05Hrs	7872.0	9.8	25.4	NA	NA	NA
						05/03/2020 10:40Hrs	8211.0	5.9	8.6	NA	NA	NA
							CPCB Norms		<50	NA	NA	NA
VII	**Captive Power Plant (55 MW)**											
1	Boiler Stack	Boiler	40	5.0	Blower	03/10/2019 07:45Hrs	53	15.9	3.5	0	159.91	141.81
						05/11/2019 10:41Hrs	53	16.4	3.9	14.9	47.49	3.85
						19/12/2019 10:30 Hrs	53.0	14.25	0.11	78.1	65.5	31.3
						09/01/2020 14:00 Hrs	53	14.3	10.2	66.3	45.45	21.3
						25/02/2020 15:15Hrs	53	14.0	10.2	<1	50.23	31.2
						13/03/2020 12:20Hrs	50	15.7	10.2	<1	41.2	20.2
							CPCB Norms		<150	NA	NA	NA
VIII	**Billet Caster & Bar Mill (1.5 & 1.4 MTPA)**											
1	Billet Caster Stack	Laddle Heating Furnace	80	2.0	Fume extraction system	02/10/2019 12:04Hrs	2624	7.31	3.49	19.9	28.2	5.5
						13/11/2019 15:55Hrs	2158.0	16.42	3.88	14.9	47.5	3.9
						20/12/2019 15:56Hrs	2935.0	15.23	3.41	7.25	9.18	10.54
						07/01/2020 08:00Hrs	2983.0	8.25	3.29	19.27	5.8	5.36
						13/02/2020 14:30Hrs	2273.0	13.97	18.46	19.27	5.8	5.36
						13/02/2020 14:30Hrs	3291.0	13.24	26.89	2.36	5.2	4.2
2	Bar Mill Stack	Reheating Furnace	80	3.0	Bag Filter	08/10/2019 10:31Hrs	2652.0	16.32	5.12	36.47	45.91	2.49
						05/11/2019 10:41Hrs	687.0	16.42	3.88	14.9	47.5	3.9
						11/12/2019 11:55Hrs	3138.0	16.52	3.69	68.22	22.07	1.1
						01/01/2020 09:00Hrs	3678.0	6.94	4.13	10.26	37.85	0.71
						13/02/2020 14:30Hrs	2781.0	14.75	10.23	10.26	37.85	0.71
						17/03/2020 16:25Hrs	4152.0	15.23	16.89	60.73	15.37	22.07
							CPCB Norms		<50	NA	NA	NA

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JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST.- RAIGAD.

WORK PLACE AIR QUALITY MONITORING REPORT

Sr. No.	LOCATION	DATE	PM10 (µg/m3)	SO_2 (µg/m3)	NO_X (µg/m3)
A) Sponge Iron Plant					
1	Near Raw Material Handling Area	09/10/2019	1228.98	1.56	15.42
		06/11/2019	1276.70	1.56	15.42
		10/12/2019	1666.11	1.56	15.42
		03/01/2020	1902.27	1.56	15.42
		24/02/2020	1962.35	5.61	13.57
		11/03/2020	1682.99	1.56	15.42
2	Near Raw Material Feeding Area	09/10/2019	970.56	2.81	15.42
		07/11/2019	1363.07	3.24	15.42
		10/12/2019	1147.29	3.45	15.42
		03/01/2020	1806.30	3.67	15.42
		24/02/2020	1220.39	3.45	14.18
		11/03/2020	1931.46	3.88	15.42
3	Near Raw Material Screen Area	09/10/2019	794.63	2.81	19.11
		07/11/2019	1237.31	2.59	19.11
		10/12/2019	1888.33	3.02	19.11
		03/01/2020	1909.09	3.24	19.11
		25/02/2020	1722.78	3.88	17.27
		11/03/2020	1839.97	4.10	19.11
4	Near Raw Material Silo	09/10/2019	843.18	1.73	15.42
		07/11/2019	1235.19	2.16	15.42
		09/12/2019	1096.30	4.32	15.42
		03/01/2020	1798.15	8.63	15.42
		25/02/2020	1916.67	9.71	13.57
		11/03/2020	1185.50	15.11	15.42
5	Near Furnace Area	10/10/2019	912.69	2.81	13.57
		07/11/2019	1166.11	2.59	13.57
		09/12/2019	1579.92	3.02	13.57
		04/01/2020	1854.55	3.24	13.57
		22/02/2020	1809.01	3.02	14.18
		09/03/2020	1269.22	3.24	13.57
6	Near Product Screen House	10/10/2019	1250.19	3.02	61.66
		08/11/2019	1978.41	3.45	61.66
		09/12/2019	1759.28	3.67	61.66
		04/01/2020	1676.52	3.88	61.66
		22/02/2020	1944.44	4.10	16.65
		09/03/2020	1091.50	4.53	61.66
7	Near Product Silo	10/10/2019	837.59	1.29	17.27
		08/11/2019	1605.56	17.27	17.27
		09/12/2019	1619.13	19.42	17.27
		04/01/2020	1363.89	17.27	17.27
		25/02/2020	1094.90	10.36	16.03
		09/03/2020	1147.22	15.11	17.27
8	Loading Point	10/10/2019	851.67	2.59	19.73
		08/11/2019	1028.60	3.02	19.73
		10/12/2019	1493.37	3.24	19.73
		04/01/2020	1859.44	2.81	19.73
		24/02/2020	1342.01	3.24	18.50
		09/03/2020	1846.86	3.88	19.73

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B) Hot Strip Mill Plant					
1	Near Gas Cleaning Plant Stack - I Control Room	05/10/2019	1049.05	3.02	13.57
		04/11/2019	1397.96	3.24	13.57
		04/12/2019	1060.93	3.02	13.57
		17/01/2020	832.25	2.81	13.57
		12/02/2020	1756.29	3.24	12.95
		04/03/2020	2101.85	3.02	13.57
2	Near Gas Cleaning Plant Stack - II Control Room	05/10/2019	1248.48	2.37	16.03
		04/11/2019	1657.58	2.37	16.03
		04/12/2019	1167.05	2.59	16.03
		17/01/2020	1612.70	2.37	16.03
		12/02/2020	2625.74	2.81	16.03
		04/03/2020	1313.72	3.24	16.03
3	Near Electric Arc Furnace Shell No. 1 & 2	05/10/2019	1962.68	5.40	32.06
		04/11/2019	2883.15	5.61	32.06
		04/12/2019	1747.64	5.83	32.06
		17/01/2020	2640.04	5.40	32.06
		25/02/2020	2263.04	5.61	14.80
		04/03/2020	2000.36	6.04	32.06
4	Near Electric Arc Furnace Shell No. 3 & 4	05/10/2019	2287.29	3.24	43.78
		04/11/2019	2652.24	2.81	43.78
		05/12/2019	2559.76	3.24	43.78
		18/01/2020	2595.83	3.02	43.78
		26/02/2020	1663.83	2.81	33.91
		05/03/2020	1971.21	2.59	43.78
5	Near Caster Control Room	05/10/2019	1345.27	2.81	22.20
		05/11/2019	1350.19	3.02	22.20
		04/12/2019	1307.39	3.45	22.20
		18/01/2020	2191.67	3.88	22.20
		26/02/2020	1454.17	3.45	16.03
		05/03/2020	1226.45	3.88	22.20
6	Near Mould & Segment Repair Shop	07/10/2019	648.70	2.37	15.42
		05/11/2019	847.73	2.59	15.42
		05/12/2019	901.85	2.37	15.42
		18/01/2020	2402.08	2.16	15.42
		20/02/2020	873.91	2.37	13.57
		05/03/2020	825.31	2.81	15.42
7	Mill Area	07/10/2019	489.44	2.16	11.72
		05/11/2019	768.18	2.16	11.72
		05/12/2019	728.80	19.42	11.72
		18/01/2020	618.48	17.27	11.72
		20/02/2020	774.64	14.89	11.10
		05/03/2020	745.33	15.54	11.72
C) Lime Calcining Plant					
1	Near Kiln I & II Lime Dedusting System Area	07/10/2019	1000.37	3.24	17.27
		05/11/2019	1571.40	3.45	17.27
		07/12/2019	1876.67	3.67	17.27
		06/01/2020	2167.23	3.24	17.27
		03/02/2020	2692.71	3.45	16.03
		16/03/2020	2325.57	3.88	17.27
2	Near Product Storage & Quick Lime Building	07/10/2019	1282.01	3.45	19.73
		06/11/2019	1109.81	3.24	19.73
		07/12/2019	1794.51	2.81	19.73
		06/01/2020	2335.23	2.81	19.73
		03/02/2020	2647.44	3.02	20.35
		16/03/2020	1602.95	3.45	19.73

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D) Blast Furnace					
1	Near Stock House	11/10/2019	2530.87	4.75	17.27
		11/11/2019	2870.21	5.18	17.27
		05/12/2019	1075.76	4.75	17.27
		09/01/2020	2513.07	4.96	17.27
		12/02/2020	1675.00	5.40	16.03
		02/03/2020	1917.01	5.83	17.27
2	Near Stove Area	11/10/2019	807.96	3.02	22.20
		11/11/2019	1137.88	2.37	22.20
		05/12/2019	883.16	2.81	22.20
		09/01/2020	1125.56	3.24	22.20
		11/02/2020	1547.12	3.45	19.12
		02/03/2020	800.67	3.24	22.20
3	Near Cast House (East)	11/10/2019	1360.83	4.32	35.77
		11/11/2019	2112.08	10.79	35.77
		05/12/2019	2480.21	12.95	35.77
		09/01/2020	2729.17	15.11	35.77
		10/02/2020	1468.33	12.95	29.60
		03/03/2020	1692.91	17.27	35.77
4	Near Cast House (West)	11/10/2019	1473.30	4.75	42.55
		11/11/2019	1738.26	4.96	42.55
		05/12/2019	2168.94	5.18	42.55
		10/01/2020	1675.00	5.61	42.55
		10/02/2020	1354.00	5.83	27.75
		03/03/2020	2177.60	5.61	42.55
5	Near Slag Granulation Plant	12/10/2019	540.74	3.45	25.90
		12/11/2019	1067.23	3.24	25.90
		04/12/2019	1302.04	3.24	25.90
		10/01/2020	1825.56	3.02	25.90
		10/02/2020	1020.24	3.24	24.67
		02/03/2020	766.67	3.45	25.90
6	Near Pig Casting Machine -I	12/10/2019	1192.42	2.59	15.42
		12/11/2019	889.67	3.02	15.42
		06/12/2019	831.16	2.59	15.42
		10/01/2020	881.16	2.37	15.42
		11/02/2020	1070.37	2.81	16.03
		03/03/2020	728.01	3.24	15.42
7	Near Pig Casting Machine -II	12/10/2019	1060.61	2.81	17.27
		12/11/2019	992.78	2.37	17.27
		06/12/2019	763.70	3.02	17.27
		11/01/2020	1250.93	3.24	17.27
		11/02/2020	1491.86	3.45	17.88
		04/03/2020	1054.69	3.02	17.27
E) Sinter Plant-I					
1	Near Flux & Coal Crushing House	13/10/2019	1132.95	1.51	11.10
		13/11/2019	1406.01	1.29	11.10
		11/12/2019	1986.46	1.51	11.10
		07/01/2020	1361.74	1.29	11.10
		06/02/2020	1243.30	3.88	10.48
		12/03/2020	1355.56	19.42	11.10
2	Near Flux Screening & Coal Crushing House	13/10/2019	1140.56	1.08	14.18
		13/11/2019	1280.68	1.51	14.18
		11/12/2019	1709.28	1.94	14.18
		07/01/2020	1979.73	1.51	14.18
		06/02/2020	1480.44	2.37	12.95
		12/03/2020	2882.27	2.37	14.18

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3	Near Proportioning House	13/10/2019	1627.29	1.29	11.72
		13/11/2019	1761.67	1.94	11.72
		05/12/2019	1932.08	1.29	11.72
		07/01/2020	1142.78	1.08	11.72
		07/02/2020	2105.43	2.59	12.95
		12/03/2020	2442.39	10.79	11.72
4	Near Sintering House	13/10/2019	595.21	3.24	16.65
		13/11/2019	783.33	3.45	16.65
		11/12/2019	1720.11	1.51	16.65
		08/01/2020	955.74	19.42	16.65
		07/02/2020	1149.31	3.88	14.18
		17/03/2020	897.55	6.47	16.65
5	Near Product Screen House	14/10/2019	1285.27	3.45	13.57
		13/11/2019	1999.01	3.02	13.57
		05/12/2019	2138.54	3.24	13.57
		08/01/2020	2694.38	3.45	13.57
		07/02/2020	2067.13	3.67	14.80
		12/03/2020	2614.34	3.88	13.57
E) Sinter Plant-II					
1	Near Sintering House	14/10/2019	1125.38	3.02	11.10
		18/11/2019	1421.21	2.81	11.10
		12/12/2019	2565.72	2.37	11.10
		11/01/2020	1359.33	2.59	11.10
		04/02/2020	1060.86	2.81	13.57
		13/03/2020	2036.46	3.24	11.10
2	Near Crushing Bldg.	14/10/2019	1265.89	3.45	12.33
		18/11/2019	1344.89	3.67	12.33
		12/12/2019	1830.49	3.88	12.33
		11/01/2020	906.16	4.10	12.33
		04/02/2020	2698.26	4.53	14.18
		13/03/2020	2120.11	2.37	12.33
3	Near Screen Building	14/10/2019	1345.04	3.02	11.10
		18/11/2019	1700.78	3.24	11.10
		11/12/2019	2811.93	3.45	11.10
		14/01/2020	1363.13	3.24	11.10
		05/02/2020	1128.62	3.45	11.10
		13/03/2020	2859.23	3.67	11.10
4	Near Product Screen Bldg.	14/10/2019	2331.67	2.37	14.18
		18/11/2019	2093.75	2.81	14.18
		11/12/2019	2033.91	2.59	14.18
		14/01/2020	1825.76	3.02	14.18
		05/02/2020	2721.74	3.67	13.57
		13/03/2020	2198.73	4.10	14.18
5	Near Mixing & Nodulizer Area	15/10/2019	2503.75	1.73	12.33
		18/11/2019	1967.71	2.16	12.33
		11/12/2019	2468.75	6.47	12.33
		14/01/2020	1654.53	10.79	12.33
		05/02/2020	2626.50	6.04	14.80
		14/03/2020	2849.38	17.27	12.33
6	Near Sintering Machine	15/10/2019	596.30	3.24	15.42
		20/11/2019	532.61	3.45	15.42
		12/12/2019	848.55	3.88	15.42
		14/01/2020	2069.13	4.53	15.42
		06/02/2020	781.73	4.75	16.03
		14/03/2020	1059.52	10.79	15.42

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F) BILLET CASTER					
1	Near Laddel Furnace Area	11/10/2019	806.70	4.53	37.61
		20/11/2019	1061.55	4.75	37.61
		04/12/2019	1474.44	5.18	37.61
		20/01/2020	2624.79	5.61	37.61
		08/02/2020	1210.07	6.04	27.75
		06/03/2020	1252.36	5.61	37.61
2	Near Casting Floor (Control room) 10.6 m	12/10/2019	1116.85	3.24	21.58
		20/11/2019	1292.99	3.67	21.58
		05/12/2019	2049.43	3.45	21.58
		20/01/2020	1338.83	3.67	21.58
		08/02/2020	1434.78	3.45	14.80
		06/03/2020	1421.02	3.88	21.58
3	Near Billet Caster Torch Cutter Machine	14/10/2019	848.48	2.37	17.88
		20/11/2019	1005.49	2.37	17.88
		06/12/2019	1374.24	3.02	17.88
		20/01/2020	992.96	3.24	17.88
		08/02/2020	1337.19	3.67	14.18
		06/03/2020	904.17	4.32	17.88

G) BAR MILL					
1	Near CP2 Furnace Mill Area	21/10/2019	729.63	2.81	15.42
		22/11/2019	929.26	3.88	21.58
		20/12/2019	1068.75	3.45	15.42
		20/01/2020	571.40	3.02	15.42
		13/02/2020	1370.11	3.24	13.57
		07/03/2020	1251.54	3.67	15.42
2	Near Bed Cooling (zero meter) Mill Area	21/10/2019	1078.79	3.45	21.58
		22/11/2019	716.12	3.02	15.42
		20/12/2019	748.15	4.10	21.58
		20/01/2020	236.51	4.53	21.58
		13/02/2020	1508.83	4.96	12.95
		07/03/2020	1198.09	4.75	21.58

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