

o/c



A wholly owned subsidiary of JSW Steel Ltd.

Amba River Coke Limited

Dolvi Works: Geetapuram, Taluka Pen,
Dist Raigad (Maharashtra),
Dolvi - 402 107

CIN. : U23100MH1997PLC110901

Phone : 02143 277501 - 14

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October, 15 2020

ARCL/ENV/MoEF & CC/2020

To

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 Coke Oven Plant & Pellet Plant of M/s. Amba River Coke Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra for the Period of April, 2020 to September 2020.

Ref: i) MoEF Letter - F No J-11011/286/2007-IA-II(I) dated 12/01/2009.

Dear Sir,

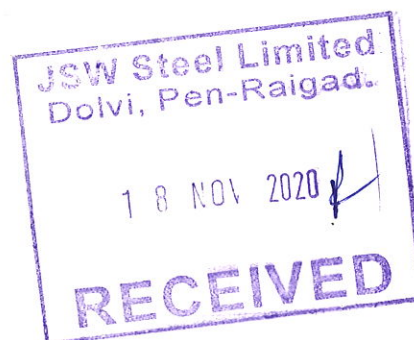
Please find enclosed the six monthly Environmental Monitoring Reports for the period of April, 2020 to September 2020 for 1.0 MTPA Coke Oven Plant & 4.0 MTPA Pellet Plant of M/s. Amba River Coke Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra.

This is for your information & record please.

Thanking you,

Yours faithfully,
For Amba River Coke Limited

Mallineni Sukumar
General Manager (Coke Oven)



- 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

Regd. Office: JSW Centre,
Bandra Kurla Complex,
Bandra(E), Mumbai - 400 051.

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AMBA RIVER COKE 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)	Flow rate of the flue gas m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NOx	CO
I	Coke Oven Plant											
1	Coke Oven Battery A & B	Coke Oven Battery A & B	145	4.50	Natrual Draft	04.04.2020 15:15 Hrs 25.05.2020 09:30 Hrs 10.06.2020 16:00 Hrs 03/07/2020 11:00Hrs 18/08/2020 10:00Hrs 17/09/2020 10:45 Hrs	1187.0 2716.0 2530.0 2528.0 2771.0 2700	10.2 9.9 12.4 14.4 7.3 12.2	31.33 28.20 19.97 20.00 20.0 38.8	102.20 2.30 134.98 125.40 102.5 86.5	144.00 148.20 48.35 66.90 59.9 42.2	NA NA 69.71 96.70 131.3 143
2	Ground De-dusting system	Coke Oven Battery A & B	31	2.50	Bag Filters	04.04.2020 09:20 Hrs 25.05.2020 09:30 Hrs 05.06.2020 09:30 Hrs 19/07/2020 09:40 Hrs 11/08/2020 12:10Hrs 17/09/2020 12:00 Hrs	1187.0 2716.0 1914.0 2482.0 2695.0 2700	15.2 14.2 14.7 16.5 8.5 21.08	10.48 10.00 11.20 16.2 10.5 14.2	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA
3	Boiler	WHRB Boiler	40	2.00	-	04.04.2020 11:25 Hrs 25.05.2020 14:33 Hrs 05.06.2020 15:30 Hrs 22/07/2020 12:38 Hrs 18/08/2020 12:20Hrs 05/09/2020 12:00 Hrs	524.0 616.0 573.0 615.0 625.0 700	9.6 11.2 12.4 14.1 20.4 12.19	29.36 22.56 19.23 22.2 6.9 32.8	131.00 121.00 115.00 128.2 33.6 28.2	219.00 231.00 244.00 155.6 105.6 70.5	NA NA NA NA NA 98.32
							CPCB Norms					
							< 50					
							<800					
							< 500					

Plant Capacity: 4.0 MTPA

II	Pellet Plant											
1	Dedusting 1 & 2	Mixer Unit	30.5	1.15	Bag Filters	10.04.2020 15:28 Hrs 26.05.2020 10:33 Hrs 06.06.2020 16:23 Hrs 20/07/2020 10:28 Hrs 20/08/2020 10:15 Hrs 15/09/2020 10:15 Hrs	3199.0 11221.0 11003.0 11504.0 11055.0 5431	10.3 8.5 10.2 11.7 12.0 12.21	25.9 29.0 26.2 22.5 19.8 31.9	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA
2	Dedusting 3	Betonite Unit	30.5	0.89	Bag Filters	10.04.2020 12:25 Hrs 26.05.2020 12:03 Hrs 06.06.2020 12:05 Hrs 20/07/2020 12:00 Hrs 20/08/2020 11:15 Hrs 15/09/2020 10:30 Hrs	3199.0 11221.0 11003.0 11504.0 11055.0 5431	12.6 10.0 10.8 12.4 12.2 12.28	30.70 33.3 35.0 29.9 24.5 24.3	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA

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

Checked By
Dr. Anand Rai
General Manager (HOD-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)	Flow rate of the flue gas m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
3	Main ESP	Induration Furnace	100	6.25	ESP	10.04.2020 10:05 Hrs	3199.0	16.5	25.7	52.30	22.48	28.36
						02.05.2020 14:00 Hrs	10017.0	7.6	14.7	48.86	19.12	24.42
						03.06.2020 10:00 Hrs	5387.0	7.7	15.5	51.04	10.31	35.02
						15/07/2020 14:01Hrs	10243.0	7.5	15.0	41.40	4.25	14.42
						03/08/2020 12:00 Hrs	10372.0	7.7	16.1	86.26	7.80	28.31
						17/09/2020 14:15 Hrs	4812	14.56	22.2	105.2	18.5	33.56
4	Dedusting 7	Hearth Layer	30.5	1.35	Bag Filters	11.04.2020 10:25 Hrs	8327.0	11.3	38.8	NA	NA	NA
						27.05.2020 10:25 Hrs	11222.0	11.4	42.0	NA	NA	NA
						08.06.2020 10:10 Hrs	9190.0	11.5	41.0	NA	NA	NA
						14/07/2020 10:10 Hrs	5725.0	12.2	32.6	NA	NA	NA
						20/08/2020 12:20 Hrs	11055.0	10.7	25.7	NA	NA	NA
						15/09/2020 12:30 Hrs	5431	10.85	24.8	NA	NA	NA
5	Dedusting 8	Final Product Silo	30.5	2	Bag Filters	11.04.2020 12:22 Hrs	8327.0	8.8	43.7	NA	NA	NA
						27.05.2020 11:55 Hrs	11222.0	10.7	52.0	NA	NA	NA
						08.06.2020 12:00 Hrs	9190.0	12.8	38.0	NA	NA	NA
						14/07/2020 11:50 Hrs	5725.0	13.2	35.5	NA	NA	NA
						20/08/2020 14:10 Hrs	11055.0	6.2	32.8	NA	NA	NA
						15/09/2020 14:15 Hrs	5431	6.24	34.6	NA	NA	NA
6	Dedusting 9	Final Product Silo	30.5	0.69	Bag Filters	11.04.2020 16:12 Hrs	8327.0	12.5	22.2	NA	NA	NA
						27.05.2020 16:05 Hrs	11222.0	12.6	15.5	NA	NA	NA
						08.06.2020 15:20 Hrs	9190.0	11.5	14.7	NA	NA	NA
						14/07/2020 14:38 Hrs	5725.0	11.5	12.1	NA	NA	NA
						20/08/2020 15:20 Hrs	11055.0	14.0	15.4	NA	NA	NA
						15/09/2020 15:30 Hrs	5431.0	14.1	22.7	NA	NA	NA
CpCB Norms							< 150	<100	< 500	< 1		

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

Checked By
Dr. Anand Rai
General Manager (HOD-Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location		Near Kasumata Temple					Near Coke Oven Plant					Near MSEB Substation					Near Goa Gate					Near Dolvi Village				
Date	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	
01-04-2020		29.22	12.91	16.96	1.86			20.13	17.09	0.85	17.29	49.17	12.45		0.33	16.59	29.30	26.79								
02-04-2020		37.13	12.93	16.94	1.97			18.05	17.08	0.45	20.58	54.94	12.42		0.35	21.47	36.95	26.96								
03-04-2020		35.90	12.87	12.75	1.86			15.54	17.09	0.49	20.31	56.47	12.37		0.39	19.45	37.42	26.97								
04-04-2020		35.82	13.07	12.59	1.86			16.54	17.07	1.32	19.61	55.23	12.28		0.43	20.55	39.91	27.02								
05-04-2020		32.24	13.13	12.42	1.86			10.30	17.07	0.68	17.46	49.26	12.20		0.47	18.19	33.32	26.67								
06-04-2020		42.42	13.64	12.24	1.89			23.58	17.06	0.57	15.33	40.07	12.20		0.50	15.20	30.65	27.03								
07-04-2020		57.92	16.55	12.62	1.82			9.99	17.08	0.95	17.18	46.44	12.28		0.49	16.52	38.42	26.99								
08-04-2020		47.03	16.70	12.72	1.20			19.01	17.07	0.32	20.15	57.42	12.11		0.48	14.76	41.72	26.57								
09-04-2020	Under Maintenance	48.03	13.19	12.72	1.98			14.15	17.08	1.56	22.47	70.77	12.24		0.45	15.12	37.99	26.47								
10-04-2020		33.22	13.01	13.12	1.91			15.97	17.08	1.24	21.08	62.66	12.43		0.45	18.12	37.95	26.89								
11-04-2020		38.32	12.93	12.85	1.94			27.87	17.08	1.58	23.58	65.44	12.22		0.46	20.99	43.93	27.11								
12-04-2020		38.13	12.76	12.74	1.89			25.51	17.07	1.64	18.79	47.46	12.02		0.46	21.18	37.85	27.06								
13-04-2020		46.98	12.92	12.77	1.85			22.00	16.74	1.36	16.34	43.46	12.16		0.45	14.71	34.52	26.78								
14-04-2020		38.33	12.85	13.00	1.89			31.20	17.08	0.98	19.02	52.57	12.05		0.45	17.37	38.60	26.93								
15-04-2020		48.58	12.89	13.20	1.91			30.11	17.09	0.78	16.37	41.85	12.02		0.47	16.64	38.29	26.91								
16-04-2020		40.76	13.37	12.93	1.87			27.32	17.08	0.68	11.04	29.77	12.05		0.50	15.94	20.38	27.86								
17-04-2020		32.10	13.65	13.07	1.87			13.98	17.08	0.23	12.46	35.70	12.31		0.52	14.76		27.37								
18-04-2020		30.46	13.15	13.89	1.89			28.13	17.09		13.59	38.21	12.12		0.54	17.65		27.31								
19-04-2020	9.50	89.97	14.58	15.31	1.97			14.85	17.04		15.23	46.45	12.39		0.56	14.34		27.88								
20-04-2020	16.43	65.38	13.81	15.29	1.63			34.89	17.05		24.62	78.76	12.35		0.59	24.83		28.08								
21-04-2020	12.08	55.63	13.77	15.16	1.84			27.71	17.09		15.41	42.53	12.19		0.63	22.56		27.59								
22-04-2020	11.14	65.72	13.88	15.76	1.94			26.34	17.08		15.47	49.92	12.03		0.65	23.56		28.06								
23-04-2020	8.38	40.72	13.50	15.97	1.88			30.11	17.07		15.70	48.12	12.10		0.66	19.81		27.96								
24-04-2020	9.81	48.74	13.53	16.10	1.98			22.99	17.09		14.73	44.55	12.19		0.67	22.44		28.03								
25-04-2020	9.53	41.23	14.04	16.36	1.94			13.39	17.08		14.09	38.88	11.99		0.69	17.74		27.59								
26-04-2020	10.10	48.88	13.66	16.51	1.95			23.57	17.09		14.65	45.96	12.14		0.71	15.00		28.20								
27-04-2020	8.43	43.42	13.72	16.72	1.95			8.66	17.07		13.86	43.96	12.12		0.74	15.42		28.42								
28-04-2020	7.81	27.90	13.38	16.65	1.91			16.43	17.07		17.79	65.39	12.38		0.76	19.97		28.46								
29-04-2020	10.00	58.94	13.21	17.05	1.97			21.09	17.03		15.14	40.96	12.60		0.78	21.69		28.41								
30-04-2020	17.75	84.52	13.59	16.90	1.87			36.88	17.07		13.78	37.28	12.59		0.79	23.18		28.67								

Month	Day	Night
Apr-20	64	63
Standards	< 75	< 70

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

Checked By
Dr. Anand Rai
General Manager (HOD-Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location		Near Kasumata Temple				Near Coke Oven Plant				Near MSEB Substation				Near Goa Gate				Near Dolvi Village			
Date		PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-05-2020		5.95	21.50	13.23	17.13	1.84															
02-05-2020		6.22	25.67	13.45	17.42	1.93															
03-05-2020		6.79	26.17	13.35	17.42	1.93															
04-05-2020		6.87	30.37	13.25	17.86	1.88															
05-05-2020		11.31	41.58	13.42	17.85	1.96															
06-05-2020		12.12	36.45	13.80	19.88	2.05															
07-05-2020		13.03	39.40	13.37	21.78	2.06															
08-05-2020																					
09-05-2020																					
10-05-2020																					
11-05-2020																					
12-05-2020																					
13-05-2020																					
14-05-2020																					
15-05-2020																					
16-05-2020																					
17-05-2020																					
18-05-2020																					
19-05-2020																					
20-05-2020																					
21-05-2020																					
22-05-2020																					
23-05-2020		3.55	23.38	13.84	20.14	2.13															
24-05-2020		2.09	17.39	13.68	19.09	2.10															
25-05-2020		2.15	18.58	13.56	18.67	2.10															
26-05-2020		1.89	22.93	13.62	18.58	2.11															
27-05-2020		2.48	23.63	13.72	18.48	2.09															
28-05-2020		2.60	64.66	14.41	18.53	2.27															
29-05-2020		1.81	36.16	14.45	18.33	1.99															
30-05-2020		2.46	27.58	13.77	18.01	1.50															
31-05-2020		2.21	25.35	13.65	18.32	1.46															

Month	Day	Night
May-20	64	63
Standards	< 75	< 70

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

Checked By 
Dr. Anand Rai
GM (HOD-Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location		Near Kasumata Temple					Near Coke Oven Plant					Near MSEB Substation					Near Goa Gate					Near Dolvi Village				
Date		PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-06-2020		2.40	51.16	14.06	18.98	1.69						15.96	46.01	29.31	14.89											
02-06-2020		3.04	42.69	13.98	19.99	1.61						11.38	23.02	29.35	12.98											
03-06-2020		16.53	27.50	14.35	37.53	1.65						7.76	5.66	29.52	10.35											
04-06-2020		6.90	89.74	14.53	24.68	2.03						9.41		29.67	13.52											
05-06-2020		3.91	92.50	15.35	20.42	2.01						10.44	Under Maintenance	29.58	13.67											
06-06-2020		3.89	96.42	14.57	20.13	1.91						8.96		29.32	11.25											
07-06-2020		3.98	96.27	14.34	17.55	1.88						9.28		29.31	8.57											
08-06-2020		3.06	78.02	14.63	18.39	2.01						12.04	97.80	29.38	12.45											
09-06-2020		3.52	96.32	14.31	17.45	1.81					0.91	17.79	69.79	29.34	13.70											
10-06-2020		3.33	65.99	14.47	17.60	1.89						15.82	56.47	29.25	14.93											
11-06-2020		4.60	94.12	14.95	17.96	2.02						16.53	13.76	29.40	29.76											
12-06-2020		3.36	90.09	14.87	18.10	2.38						7.91		29.82	8.91											
13-06-2020		3.29	68.22	14.96	18.10	2.12						16.35	Under Maintenance	30.01	7.81											
14-06-2020		3.78	66.98	14.71	18.28	2.09					0.68	6.29		30.10	8.52											
15-06-2020		3.55	59.99	15.19	17.94	2.23						8.20	35.11	30.22	10.86											
16-06-2020		3.87	92.80	14.83	16.84	1.95						7.01	14.27	30.26	10.56											
17-06-2020		3.54	90.56	14.99	18.02	2.18					0.6771	7.68	10.54	30.39	10.38											
18-06-2020		3.27	90.02	15.50	20.44	2.21						5.51	0.00	30.45	11.10											
19-06-2020		8.79	84.21	15.20	21.62	1.93					0.67	8.53	61.61	30.44	12.21											
20-06-2020		3.53	93.67	15.81	18.93	2.14						11.28	64.33	30.39	10.52											
21-06-2020		3.64	94.29	15.93	18.77	2.36						8.19	29.47	30.40	7.96											
22-06-2020		3.14	74.33	16.09	18.25	1.99						8.76	51.59	30.37	10.39											
23-06-2020		4.15	90.99	16.28	18.37	2.92						9.13	53.75	30.42	9.07											
24-06-2020		3.23	65.43	16.07	18.98	2.51					0.68	7.81	46.38	30.52	10.59											
25-06-2020		3.51	58.20	15.12	18.33	1.99					0.69	12.46	75.37	30.63	11.88											
26-06-2020		3.11	53.47	15.31	18.05	2.27						11.72	51.26	30.74	13.82											
27-06-2020		2.76	50.12	15.00	18.28	2.29					0.7	15.56	76.08	30.84	15.38											
28-06-2020		3.19	40.32	14.94	18.51	2.00					0.71	11.55	47.62	30.84	9.96											
29-06-2020		2.67	61.85	14.84	18.39	1.79						9.56	52.95	30.82	12.97											
30-06-2020		3.49	56.64	14.57	18.80	2.00					0.7	10.08	94.03	30.87	10.79											

Month	Day	Night
Jun-20	64	63
Standards	< 75	< 70

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

Checked By 
Dr. Anand Rai
GM (HOD-Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location		Near Kasumata Temple					Near Coke Oven Plant					Near MSEB Substation					Near Goa Gate					Near Dolvi Village				
Date		PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-07-2020		2.91	78.46	14.92	18.57	2.17						4.6	9.7	12.9		0.61	7.42	57.3	30.77	8.92						
02-07-2020		3.17	94.33	14.67	18.50	2.11						3.9	8.0	12.3		0.72	5.98	61.99	30.79	8.46						
03-07-2020		3.24	86.20	14.99	19.32	2.18											5.56	22.59	30.79	12.72						
04-07-2020		6.78	18.32	15.41	30.64	1.92											7.16	22.11	31.11	14.5						
05-07-2020		10.21	49.64	15.38	29.79	1.91											6.12	24.53	31.01	7.23						
06-07-2020		3.05	18.66	14.63	29.09	1.74											7.91	37.58	31.18	8.45						
07-07-2020		4.20	76.56	15.52	37.42	1.86											10.59	13.09	31.33	19.48						
08-07-2020		3.34	84.51	15.18	21.09	1.91											9.17	30.54	31.05	15.64						
09-07-2020		3.32	78.94	15.58	25.89	2.16											7.79	41.51	31.11	14.02						
10-07-2020		3.06	92.34	15.52	24.65	2.14											6.8	35.64	30.62	11.68						
11-07-2020		59.25	87.51	15.09	27.21	2.21											6.05	41.17	30.88	11.09						
12-07-2020		30.51	80.67	15.12	25.04	2.48						4.49	10.50	12.05		0.57	4.18	9.29	30.47	7.96						
13-07-2020		26.22	95.86	15.01	24.00	2.34						5.48	12.54	12.08		0.58	6.46	21.29	28.99	10.68						
14-07-2020		23.50	90.79	15.00	24.54	2.24						4.44	9.35	12.05		0.57	4.93	17.47	31.38	14.16						
15-07-2020		24.31	94.41	15.30	28.52	2.06						2.38	6.70	12.05		0.57	5.13	11.09	31.48	13.34						
16-07-2020		57.41	83.45	16.59	42.78	1.92						4.10	8.78	12.31		0.42	3.94	13.28	31.52	8.44						
17-07-2020		39.06	89.75	17.61	35.32	1.93						3.18	9.41	12.54		0.81	3.33	10.21	31.26	9.5						
18-07-2020		27.55	90.74	16.39	29.71	1.67						4.80	10.48	12.65		0.45	5.89	14.89	31.48	10.58						
19-07-2020		21.39	68.27	16.04	30.48	1.61						5.12	12.64	12.74		0.43	15	65.19	31.7	18.34						
20-07-2020		16.29	57.42	15.51	24.72	1.54						8.60	20.38	12.68		0.65	12.87	80.7	31.63	13.95						
21-07-2020		28.93	62.45	15.63	30.27	1.58						8.74	16.87	13.84		0.71	12.45	73.09	31.53	12.78						
22-07-2020		10.56	39.03	15.55	23.98	1.58						9.42	19.80	11.34		0.63	8.93	71.34	31.72	13.57						
23-07-2020		15.20	47.97	15.58	28.42	1.58						5.84	15.04	11.95		0.45	10.13	34.34	31.66	15.87						
24-07-2020		16.12	57.65	15.33	25.48	1.65						4.86	20.09	11.73		0.45	7.56	29.89	31.68	13.24						
25-07-2020		17.66	86.15	15.05	27.23	1.65						4.91	23.54	12.47		0.74	6.96	28.54	31.96	14.43						
26-07-2020		19.70	96.78	15.53	28.14	1.70						6.52	18.75	13.24		0.53	11.3	94.56	31.68	11.61						
27-07-2020		24.55	84.75	15.81	33.82	1.76						6.78	16.45	12.80		0.84	4.36	8.83	31.92	12.36						
28-07-2020		22.30	88.50	15.67	30.68	1.88						3.26	6.44	12.87		0.46	2.86	10.7	31.98	14.9						
29-07-2020		20.64	78.10	15.55	31.67	1.73						8.17	10.50	12.70		0.47	4.54	64.96	32.46	18.44						
30-07-2020		20.84	78.58	15.43	31.72	1.63						5.85	13.74	12.45		0.45	6.74	20.02	32.22	19.59						
31-07-2020		15.40	59.94	15.27	30.91	1.13						5.12	16.12	11.07		0.50	5.18	30.45	32.18	16.85						

Month	Day Time	Night Time
Jul-20	64	63
Standards	< 75	< 70

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B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location		Near Kasumata Temple					Near Coke Oven Plant					Near MSEB Substation					Near Goa Gate					Near Dolvi Village				
Date		PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-08-2020		30.16	89.1	15.58	34.41	0.84	7.6	24.9	10.7		0.49															
02-08-2020		44.25	81.24	15.8	38.74	1.47	2.1	9.1	11.0		0.50															
03-08-2020		35.82	60.24	15.85	34.89	0.79	CPU Problem																			
04-08-2020		6.11	20.19	15.16	21.17	2.44																				
05-08-2020		6.02	19.38	14.7	24.7	2.4																				
06-08-2020		5.26	12.6	14.73	25.83	2.42	3.39	10.56	11.84		0.5															
07-08-2020		6.46	19.52	14.94	18	2.45	22.11	84.51	10.6		1.91															
08-08-2020		7.69	19.68	14.84	19.52	2.48	8.27	19.95	11.8		1.54															
09-08-2020		6.96	18.77	14.83	25.74	2.48	Power Supply Failure																			
10-08-2020		18.74	91.53	14.74	29.25	2.49																				
11-08-2020		14.91	60.33	15.52	29.74	2.56																				
12-08-2020		6.6	18.72	14.96	25.96	2.45	Under Maintenance																			
13-08-2020		6.19	19.07	14.69	25.95	2.45																				
14-08-2020		6.12	17.89	14.89	26.75	2.47																				
15-08-2020		6.95	18.03	14.7	25.91	2.46	Under Maintenance																			
16-08-2020		6.62	16.81	14.47	24.68	2.46																				
17-08-2020		7.39	24.03	14.71	26.11	2.51																				
18-08-2020		9.61	32.52	16.01	28.28	3	Power Supply Failure (UPS power card damaged, due to high power pickup) Now UPS under repairing																			
19-08-2020		11.73	42.39	15.72	26.16	2.59																				
20-08-2020		6.05	18.82	15.42	26.42	2.65																				
21-08-2020		6.81	22.34	15.57	26.89	2.65	Under Maintenance																			
22-08-2020		5.2	15.19	15.16	26.29	2.48																				
23-08-2020		5.27	14.11	15.11	26.17	2.48																				
24-08-2020		5.58	16.9	15.01	25.34	2.52	Under Maintenance																			
25-08-2020		7.81	24.74	15.16	27.02	2.54																				
26-08-2020		20.42	84.18	15.79	30.52	2.61																				
27-08-2020		18.57	72.24	16.05	30.02	2.73	Under Maintenance																			
28-08-2020		23.29	86.88	17.32	35.33	2.69																				
29-08-2020		25.89	76.54	17.39	36.97	2.84																				
30-08-2020		19.37	72.91	16.51	31.81	2.68	Under Maintenance																			
31-08-2020		13.48	45.5	16.46	20.1	2.6																				

Month	Day	Night
Aug-20	64	63
Standards	< 75	< 70

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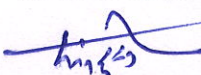
a). AMBIENT AIR QUALITY(AAQ):

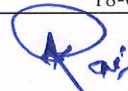
Month	Day Time	Night Time
Sep-20	63	62
Standards	<75	<70

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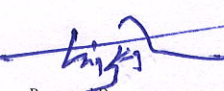
b) FU	23-04-2019	1412.3	3.7	17.88
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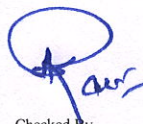
Sr. No.	Location of the Station	Date & Time of Monitoring	Parameters (µg/m ³)		
			PM10	SO ₂	NO _x
A Coke Oven Plant					
	CPCB Norms (µg/m3)		3000	200	150
1	Near Coal Blending Area	18/04/2020	2310.4	6.0	18.50
		11-05-2020	2140.9	5.8	19.12
		11-06-2020	2140.9	5.8	18.50
		27-07-2020	1149.8	5.8	20.35
		20-08-2020	1361.6	5.4	20.97
		16-09-2020	1783.7	5.1	17.73
2	Near Secondary Coal Crusher Area	18/04/2020	1665.1	4.5	22.82
		11-05-2020	1980.0	5.4	22.20
		11-06-2020	1980.0	5.2	19.73
		27-07-2020	1070.4	5.4	22.20
		20-08-2020	1511.2	5.8	21.58
		15-09-2020	2376.9	5.3	178.14
3	Near Coke Oven Battery A Warf Area	18/04/2020	1416.5	4.7	20.35
		11-05-2020	1694.9	5.0	20.97
		11-06-2020	1694.9	3.2	25.28
		27-07-2020	1394.7	5.6	22.82
		20-08-2020	1222.0	5.8	23.43
		15-09-2020	2018.2	5.0	19.18
4	Near Coke Oven Battery B Warf Area	18/04/2020	2003.5	3.7	19.12
		11-05-2020	1821.9	3.5	20.35
		11-06-2020	1821.9	3.5	11.72
		27-07-2020	1358.0	3.5	20.97
		19-08-2020	1134.3	3.7	19.73
		14-09-2020	1868.9	3.9	16.03
5	Near Coke Cutter Area	18/04/2020	2256.3	5.6	16.03
		12-05-2020	1559.4	5.8	16.65
		12-06-2020	1559.4	4.5	14.18
		28-07-2020	1003.1	3.7	14.18
		21-08-2020	954.5	3.5	12.95
		15-09-2020	1952.4	3.5	14.80
6	Near Coke Screening Area	18/04/2020	1898.4	5.2	20.97
		12-05-2020	1593.8	5.6	21.58
		12-06-2020	1593.8	4.7	20.35
		28-07-2020	1493.2	5.6	21.58
		19-08-2020	1367.4	5.4	22.20
		14-09-2020	1379.8	3.9	16.65
7	Near Sulphur Recovery Area	18/04/2020	902.9	4.7	23.43
		12-05-2020	819.0	5.2	24.05
		12-06-2020	1593.8	4.7	20.35
		28-07-2020	778.1	6.0	22.20
		21-08-2020	1056.9	6.3	22.81
		14-09-2020	495.3	4.1	17.88
B Pellet Plant					
	CPCB Norms (µg/m3)		3000	200	150
1	Near Mixer Building Area	09/04/2020	1190.1	5.6	20.97
		14-05-2020	1571.7	5.8	21.58
		15-06-2020	1571.7	5.4	20.35
		24-07-2020	913.9	6.3	22.82
		19-08-2020	922.1	6.7	24.05
		18-09-2020	956.5	5.9	18.50
2	Near Bentonite Storage Area	09/04/2020	1495.5	5.2	24.05
		14-05-2020	1589.4	5.6	23.43
		15-06-2020	1589.4	5.6	23.43
		24-07-2020	836.7	6.0	23.43
		19-08-2020	1208.7	5.6	21.58
		18-09-2020	1181.1	4.6	19.87


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3	Near Additive Ball Mill Area	09/04/2020	1039.1	2.8	19.73
		14-05-2020	1361.1	3.0	20.35
		15-06-2020	1361.1	4.5	19.12
		24-07-2020	1070.1	3.0	22.20
		18-08-2020	1030.3	3.2	22.82
		14-09-2020	1915.9	4.3	17.81
4	Near Ball Mill Area	09/04/2020	1339.13	2.37	17.27
		13-05-2020	1581.06	2.59	16.65
		16-06-2020	1581.06	2.59	16.03
		24-07-2020	710.69	2.59	16.65
		18-08-2020	894.93	2.81	17.27
		15-09-2020	244.20	3.45	14.80
5	Near Indurating Machine	11/04/2020	1721.1	5.0	16.03
		13-05-2020	2101.9	4.7	15.42
		16-06-2020	2101.9	3.5	19.12
		25-07-2020	1515.9	4.7	15.42
		18-08-2020	1402.3	5.0	14.80
		16-09-2020	2489.2	4.5	16.65
6	Near Hearth Layer Area	11/04/2020	1980.8	5.4	20.35
		13-05-2020	2266.5	5.0	20.97
		16-06-2020	2266.5	4.7	13.57
		25-07-2020	1195.9	5.6	22.82
		19-08-2020	1816.1	5.4	23.43
		19-09-2020	1363.7	4.7	16.65
7	Near Product Storage Area	11/04/2020	2437.7	4.1	22.20
		13-05-2020	2182.0	4.3	22.82
		16-06-2020	2182.0	4.5	19.12
		25-07-2020	1796.4	4.7	22.20
		19-08-2020	1348.5	5.0	22.82
		21-09-2020	1218.3	4.5	16.03


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C. WATER POLLUTION STATUS:

Water Consumption/tonne of product produced :

Water Consumption / MT of Coke Produced : 1.495 M³/MT, from April., 2020 to Sept., 2020 (For COP only).

Water Consumption / MT of Pellet Produced : 1.6165 M³/MT, April., 2020 to Sept., 2020 (For Pellet only).

Effluent discharged to : No Discharge

Date & Time of the sample	Location of the Sampling Point	Type of the Treatment provided	Flow Rate Average (m ³ /day)	Parameters Monitored (mg/l, except pH)						Quantity of the treatment effluent reused / recirculated & what purpose	
				pH	TSS	Phenol	Cyanide	BOD	COD		Amm. Nitrogen
From April., 2020 to Sept., 2020	COBP Effluent	BOD Plant - oil separation pool and air floatation pool, anaerobic pool, anoxia pool, aerobic pool and contact pool, Activated Carbon, Pressure Sand Filter	107.31 m ³ /h								After treatment 100 % quantity of treated water reused for coke-quenching. No discharge of waste water.
	Pellet Plant										No Discharge

QUALITY OF VARIOUS EFFLUENT STREAMS AT THE BOUNDARY LINE OF THE PLANT:

Sr. No.	Name of the Stream	Name of the Production Unit contributing to the Stream	Date & Time of Monitoring	Parameters (mg/l, except pH & Temp.)							
				Temp. (°C)	pH	TSS	D.O.	C.O.D.	B.O.D.	O & G	IRON
Not applicable, as we are not discharging any wastewater from the Plant.											

STATUS OF SEWAGE TREATMENT PLANT (STP):

Date & Time of Monitoring	Name of the STP	Quantity of the Effluent	Parameters (mg/l, except pH & Temp.)					Remark
			Temp. (° C)	pH	TSS	BOD	COD	
From April, 2020 to Sept., 2020	BOD Plant	After treatment 100 % quantity used for coke-quenching or gardening.						All septic tank water Connected to BOD Plant

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D. HAZARDOUS WASTE & SOLID WASTE MANAGEMENT:

a. Status of Solid Waste Management:

Sr. No.	Name of the Plant	Type of Waste	Quantity of Solid Waste generated per month in MT from Apr., 2020 to Sept, 2020	Method of reuse / disposal
1	Coke Oven Plant	Coke Breeze, Coke & Coal Dust	5005.9	100 % Reused Coke & Coal Dust in Coke Oven process and Coke Breeze in Pellet, Sinter Plant.
2	Pellet Plant	ESP & Bag filter dust from dedusting system	11026	100 % Reused in Pellet Process

b. Status of Hazardous Waste Management:

Sr. No.	Name of the Plant	Quantity of Hazardous Waste generated per month	Type of Hazardous Waste / Category	Method of handling, transportation & disposal
1	Coke Oven Plant	Nil	Used oil (Category No. 5.1)	NA
2		Nil	Impure Sulphur Paste (Category No. 34.3)	NA
3		22.13	Decanter Sludge (Category No. 13.3)	100 % Reused in Coke Oven process
4	Pellet Plant	Nil	Used oil (Category No. 5.1)	Sold to Authorised Party for Disposal

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E. NOISE POLLUTION CONTROL STATUS:

Sr. No	Location	Distance from the Source (m)	Name of Control Equipment provided	Date of Monitoring	Noise Level Leq. dB(A)			
					Day		Night	
					Time	dB(A)	Time	dB(A)
A	Coke Oven Plant							
1	Near Coke Oven -Battary Pushing side	5	**	01-04-2020	10:52	78	03:41	84
				15-04-2020	10:58	76	03:58	83
				08-05-2020	10:15	87	03:41	81
				23-05-2020	15:10	86	03:58	82
				09-06-2020	11:05	87	04:15	86
				23-06-2020	13:04	85	05:25	84
				07-07-2020	10:10	86	03:41	85
				22-07-2020	10:14	84	03:58	86
				10-08-2020	11:20	81	00:14	80
				24-08-2020	13:05	80	01:18	80
				09-09-2020	14:19	87	01:10	86
				23-09-2020	19:20	86	05:25	85
2	Near Coke Oven -Battary Coke side	5	**	01-04-2020	11:02	79	03:44	83
				15-04-2020	11:06	80	04:02	82
				08-05-2020	10:19	86	03:44	80
				23-05-2020	15:15	85	04:02	81
				09-06-2020	11:20	84	04:26	83
				23-06-2020	13:08	85	05:28	84
				07-07-2020	10:12	86	03:44	85
				22-07-2020	10:16	86	04:02	85
				10-08-2020	11:24	80	00:21	78
				24-08-2020	13:11	81	01:23	79
				09-09-2020	14:21	86	01:14	84
				23-09-2020	19:23	85	05:28	85
3	Near Coke cutter/coke screening area	5	**	01-04-2020	11:10	74	03:47	82
				15-04-2020	11:14	72	04:06	84
				08-05-2020	10:22	87	03:47	82
				23-05-2020	15:21	86	04:06	81
				09-06-2020	11:08	86	04:34	84
				23-06-2020	13:24	85	05:32	84
				07-07-2020	10:18	87	03:47	86
				22-07-2020	10:19	86	04:06	85
				10-08-2020	11:27	82	00:25	81
				24-08-2020	13:17	83	01:28	82
				09-09-2020	14:23	85	01:17	84
				23-09-2020	19:26	86	05:32	85
4	Near BOD Plant area	5	**	01-04-2020	11:16	85	03:52	84
				15-04-2020	11:20	84	04:11	76
				08-05-2020	10:28	84	03:52	83
				23-05-2020	15:26	83	04:11	82
				09-06-2020	11:54	83	04:42	82
				23-06-2020	13:28	82	05:35	81
				07-07-2020	10:22	84	03:52	83
				22-07-2020	10:25	85	04:11	84
				10-08-2020	11:34	85	00:32	84
				24-08-2020	13:24	84	01:34	84
				09-09-2020	14:27	85	01:21	84
				23-09-2020	19:29	86	05:35	85

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5	Near Coke Oven Main office Area	5	**	01-04-2020	11:24	82	03:57	74
				15-04-2020	11:28	82	04:16	70
				08-05-2020	10:32	81	03:57	74
				23-05-2020	15:30	80	04:16	73
				09-06-2020	12:05	78	04:50	76
				23-06-2020	13:33	76	05:39	75
				07-07-2020	10:27	79	03:57	78
				22-07-2020	10:32	80	04:16	79
				10-08-2020	11:39	78	00:39	78
				24-08-2020	13:29	78	01:39	76
				09-09-2020	14:31	85	01:26	84
				23-09-2020	19:33	86	05:39	85
6	Near Coal blending Area	5	**	01-04-2020	11:32	74	04:01	84
				15-04-2020	11:40	72	04:21	83
				08-05-2020	10:36	86	04:01	80
				23-05-2020	15:35	85	04:21	80
				09-06-2020	12:08	85	04:55	84
				23-06-2020	13:37	84	05:42	82
				07-07-2020	10:31	86	04:01	85
				22-07-2020	10:35	87	04:21	86
				10-08-2020	11:45	82	00:45	81
				24-08-2020	13:34	81	01:45	81
				09-09-2020	14:35	84	01:31	83
				23-09-2020	19:37	89	05:42	87
7	Near Ammonia scrubber Area	5	**	01-04-2020	11:44	84	04:05	84
				15-04-2020	11:48	84	04:25	83
				08-05-2020	10:39	87	04:05	82
				23-05-2020	15:37	86	04:25	84
				09-06-2020	12:23	86	05:17	85
				23-06-2020	13:41	85	05:46	84
				07-07-2020	10:34	88	04:05	87
				22-07-2020	10:38	87	04:25	86
				10-08-2020	11:53	84	00:51	83
				24-08-2020	13:39	83	01:51	82
				09-09-2020	14:39	88	01:35	86
				23-09-2020	19:41	86	05:46	85
8	Near Secondary Crusher Area	5	**	01-04-2020	11:52	83	04:08	82
				15-04-2020	11:56	82	04:30	81
				08-05-2020	10:43	86	04:08	83
				23-05-2020	15:41	86	04:30	82
				09-06-2020	12:26	84	05:24	83
				23-06-2020	13:43	83	05:49	81
				07-07-2020	10:40	87	04:08	86
				22-07-2020	10:44	86	04:30	85
				10-08-2020	11:58	85	00:57	84
				24-08-2020	13:44	84	01:57	83
				09-09-2020	14:41	85	01:37	84
				23-09-2020	19:43	84	05:49	83
B. Pellet Plant								
1	Near Ball Mill Area	5	**	06-04-2020	10:22	84	02:15	84
				20-04-2020	11:20	85	03:55	84
				08-05-2020	12:01	87	02:15	84
				23-05-2020	16:23	86	03:55	83
				09-06-2020	14:01	85	01:41	84
				23-06-2020	19:15	85	05:07	83
				07-07-2020	10:22	86	02:15	85
				22-07-2020	11:20	87	03:55	86
				10-08-2020	18:30	84	03:11	83
				24-08-2020	19:01	85	03:02	84
				11-09-2020	16:08	89	03:45	88
				25-09-2020	16:04	87	01:13	85

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2	Near Additive Ball Mill Area	5	**	06-04-2020	10:27	85	04:19	84
				20-04-2020	11:24	85	04:59	83
				08-05-2020	12:05	89	04:19	84
				23-05-2020	16:28	88	04:59	82
				09-06-2020	14:04	88	01:45	87
				23-06-2020	19:19	89	05:10	88
				07-07-2020	10:27	87	04:19	86
				22-07-2020	11:24	88	04:59	87
				10-08-2020	18:34	84	03:17	83
				24-08-2020	19:07	85	03:08	84
				11-09-2020	16:09	86	03:47	86
				25-09-2020	16:05	86	01:15	85
3	Near Main ESP	5	**	06-04-2020	10:32	87	04:17	86
				20-04-2020	11:28	86	05:02	85
				08-05-2020	12:08	90	04:17	86
				23-05-2020	16:32	89	05:02	87
				09-06-2020	14:06	89	01:47	88
				23-06-2020	19:21	88	05:13	86
				07-07-2020	10:32	88	04:17	87
				22-07-2020	11:28	89	05:02	88
				10-08-2020	18:42	88	03:22	85
				24-08-2020	19:12	87	03:14	86
				11-09-2020	16:11	90	03:50	88
				25-09-2020	16:08	88	01:20	88
4	Near Product Storage Area	5	**	06-04-2020	10:37	85	04:22	84
				20-04-2020	11:34	86	05:04	83
				08-05-2020	12:12	84	04:22	80
				23-05-2020	16:34	83	05:04	80
				09-06-2020	14:09	85	01:51	84
				23-06-2020	19:25	84	05:17	83
				07-07-2020	10:37	87	04:22	86
				22-07-2020	11:34	85	05:04	84
				10-08-2020	18:47	82	03:27	81
				24-08-2020	19:17	81	03:21	80
				11-09-2020	16:16	87	03:55	86
				25-09-2020	16:11	89	01:25	87
5	Near Indurating area	5	**	06-04-2020	10:44	84	04:28	83
				20-04-2020	11:38	86	05:10	85
				08-05-2020	12:18	89	04:28	80
				23-05-2020	16:40	88	05:10	80
				09-06-2020	14:14	88	01:55	86
				23-06-2020	19:28	87	05:20	86
				07-07-2020	10:44	89	04:28	88
				22-07-2020	11:38	88	05:10	87
				10-08-2020	18:52	82	03:31	81
				24-08-2020	19:21	82	03:25	81
				11-09-2020	16:16	89	04:01	87
				25-09-2020	16:13	87	01:38	86

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6	Near Hearth Layer Area	5	**	06-04-2020	10:48	85	04:33	84
				20-04-2020	11:45	84	05:16	83
				08-05-2020	12:23	87	04:33	81
				23-05-2020	16:45	86	05:16	80
				09-06-2020	14:19	86	01:58	85
				23-06-2020	19:32	85	01:24	84
				07-07-2020	10:48	85	04:33	84
				22-07-2020	11:45	84	05:16	83
				10-08-2020	18:57	83	03:37	82
				24-08-2020	19:25	82	03:31	81
				11-09-2020	16:21	88	04:04	86
				25-09-2020	16:16	86	01:44	84

- ** Whereever possible, all noise creating equipments have been provided with in-built acoustic system by
- Personnels expose to higher noise level are provided with Hearing Protection equipments. Exposure time to high noise level


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F. STATUS OF CONSENTS:

S. No.	Acts	Consent Number	Valid w. e. f.	Validity upto
1	Under Section 26 of the Water (Prevention and Control of Pollution) Act, 1974	Coke Oven Plant (1 MTPA) Format 1.0/ BO/ CAC - Cell/ UAN No. 0000024004 - 17 / CAC - 1803000008 dated 01/03/2018	01/06/2017	31-05-2022
2	Under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and authorisation under rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008	Pellet Plant (4 MTPA) Format 1.0/ BO/ CAC - Cell/ UAN No. 0000045570 - 18 / CAC - 1811000098 dated 02/11/2018	01-07-2018	09-30-2022



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