


BIRLA CARBON INDIA PVT. LTD.

(Hi Tech Carbon, Patalganga)

Summary of Environment Performance

Monitoring	Location	Month		Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
		Parameter	MPCB Limit							
	Boiler Stack, : RCC, 108M, Dimeter at TOP : 6.3M MOC Height: Dimeter at	TPM	150 mg/Nm ³	37.29	38.2	40.35	65.81	16.93	23	24.74
		SO ₂	5760 Kg/Day	57.02	7.62	8	22.23	50.35	51.65	49.05
		Nox		86.13	83.6	33.95	35.64	17.3	15.41	13.35
		CO		17	63.74	54.34	12.98	17.66	17.33	16.49
		HCs		BDL	BDL	BDL	BDL	3.03	12.88	10.56
		HC (Non Methane)		BDL	BDL	BDL	BDL	0.01	BDL	BDL
	Dryer Stack, : MS, Dimeter at TOP : 2.3 M MOC Height: 77M, Dimeter at TOP : 2.3 M	TPM	150 mg/Nm ³	32.78	32.31	43.88	72.01	1.2	1.5	1
		SO ₂	1260 Kg/Day	19.18	18.39	19.14	13.07	5.1	7.57	7.54
		Nox		51.34	49.49	52.53	18.75	BDL	BDL	BDL
		CO		12.44	29.04	19.6	28.1	BDL	BDL	BDL
		HCs		BDL	BDL	BDL	BDL	BDL	0.01	0.01
		HC (Non Methane)		BDL	BDL	BDL	BDL	BDL	0.03	0.03
	D.G. Stack, MS, Dimeter at TOP : 0.254 M MOC : Height: 43M, Dimeter at TOP : 0.254 M	TPM	150 mg/Nm ³	53.45	52.94	65.07	41.4	19.53	18.23	19.53
		SO ₂	216 Kg/Day	54.39	53.58	62.42	11.11	53.82	51.22	50.35
		Nox		49.32	47.29	50.84	32.36	15.6	15.03	15.07
		CO		16.06	19.13	21.82	59.6	19.71	17.52	17.23
		HCs		BDL	BDL	BDL	BDL	9.1	11.37	17.36
		HC (Non Methane)		BDL	BDL	BDL	BDL	0.02	0.02	0.03
		TPM	150	18.64	17.52	18.94	27.72	0.91	0.5	1

Stack Monitoring	PGF No.01	SO2		BDL	BDL	BDL	BDL	6.3	6.73	6.7
		Nox		BDL	BDL	BDL	BDL	BDL	BDL	BDL
		CO		1.71	2.12	1.87	1.75	BDL	BDL	BDL
		HCs		BDL	BDL	BDL	BDL	0.02	0.02	0.02
	PGF No.02	TPM	150	16.58	14.35	15.18	17.07	0.04	BDL	BDL
		SO2		BDL	BDL	BDL	BDL	20.83	20.4	22.14
		Nox		BDL	BDL	BDL	BDL	51.65	49.48	52.52
		CO		1.72	2.63	1.68	1.56	21.3	18.9	17.08
		HCs		BDL	BDL	BDL	BDL	23.7	20.66	19.71
	Gas Flare System	TPM		65.37	64.27	71.81	68.54	14.42	4.07	5.28
		SO2		6.83	6.04	9.18	9.81	BDL	0.03	0.02
		Nox		17.4	16.55	15.37	22.12	1.6	0.5	1.5
		CO		4.33	3.11	2.8	4.11	19.2	18.28	12.45
		HCs		BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Packing Exhaust Blower	TPM		55.63	53.44	57.26	63.72	BDL	BDL	BDL
		SO2		13.66	12.87	17.18	9.67	0.03	BDL	BDL
		Nox		18.07	17.73	18.75	18.75	0.04	0.05	0.04
		CO		4.38	2.91	1.72	3.05	21.7	16.49	17.36
		HCs		BDL	BDL	BDL	BDL	54.69	49.91	51.65
	Fire Hydrant Diesel Pump	TPM		53.63	52	57.45	58.21	16.2	14.4	14.18
		SO2		6.31	5.52	4.72	7.84	16.25	15.45	14.08
		Nox		12.33	12.67	6.92	17.06	5.31	8.05	8.3
		CO		3.54	4.11	1.86	1.79	BDL	BDL	BDL
		HCs		BDL	BDL	BDL	BDL	0.82	1.5	0.5
	DG Set River Side	TPM		47.6	45.01	63.31	62.53	6.1	5.89	5.74
		SO2		7.36	6.57	8.65	9.81	BDL	BDL	BDL
		Nox		19.25	18.92	24.66	30.57	BDL	BDL	BDL
		CO		9.27	13.09	18.27	17.96	BDL	BDL	BDL
HCs			BDL	BDL	BDL	BDL	BDL	BDL	BDL	
		RSPM PM 2.5	60	33.5	35.54	32.68	47.39	22.3	20.11	21.36
		RSPM PM 10	100	54.74	58.82	53.1	64.54	56.9	49.65	54.18
		SO2	80	11.95	14.57	13.53	20.09	15.74	12.66	15.44

Ambient Air Quality Monitoring	Tank Farm Area	Nox	80	15.83	9.03	15.45	18.68	20.12	19.25	18.62
		O3	180	16.01	14.16	15.11	9.88	10.3	7	8.12
		Pb	1	BDL	BDL	BDL	BDL	0.02	0.05	0.08
		CO	4	0.5	1.89	1.8	1.39	1.52	1.63	1.74
		NH3	400	6.91	7.99	4.92	5.12	10	9.3	8.5
		C6H6	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
		BaP	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
		As	6	BDL	BDL	BDL	BDL	0.03	0.02	0.04
		Ni	20	BDL	BDL	BDL	BDL	0.05	0.03	0.05
Ambient Noise Level Monitoring	Near Switch Yard	Day	75	59.6	58.88	59.41	57.76	PLANT SHUTDOWN		
		Night	70	53.25	54.37	52.43	52.6			
	Near Tank Farm Area	Day	75	59.92	58.98	60.97	61.35			
		Night	70	53.15	53.25	52.34	52.6			
	Near Material Gate	Day	75	57.44	56.44	53.51	59.43			
		Night	70	63.48	53.86	50.48	51.76			
	Near Dandwadi	Day	75	59	60.05	59.48	59.54			
		Night	70	54.22	52.48	51.88	52.05			
	Near DG Set	Day (Inside)		100.7	101.2	101.5	101.5			
		Day (Outside)		73.7	73.9	74.5	75.3			
	Rivar DG	Day (Inside)		101.4	100.7	101.5	101.5			
		Day (Outside)		74.8	73.7	73.9	73.8			
Settling Pond Outlet	pH	5.5 -9.0	6.7	6.95	6.5	7.41				
	TSS	100	20	30	35	2				
	TDS	2100	112	140	170	328				
	COD	250	43.92	138.46	184.61	19.01				
	BOD (3 day)	100	17	58.8	66.5	7.61				
	O & G	10	<2.0	<2.0	<2.0	<2.0				
	pH	6.5-8.5	6.15	6.95	6.95	7.9				
	Temp.	30 °C	24.7	28.4	30	27.2				
	TSS	100	24	32	30	2				
	TDS	2100	116	118	136	110				
	COD	250	18.82	26.54	46.15	22.22				
	BOD (3 day)	100	6.8	10	17.03	8.88				

**Water
Sample**

**ETP Composite Water (ETP
Outlet)**

O & G	10	<0.2	<0.2	<0.2	<2.0
Chlorieds	600	64.98	87.97	97.97	26.46
Sulphates	1000	18	30	35	6.5
Phosphate	5	<0.1	<0.1	<0.1	0.184
Free Available Chlorine	0.5	0.89	<0.1	<0.1	2.22
Zinc	1	<0.01	<0.01	<0.01	0.16
Chromium	0.2	<0.01	<0.01	<0.01	0.046
Iron	1	0.318	<0.1	<0.1	0.65
Copper	1	<0.01	<0.01	<0.01	0.013
pH		6.5	6.98	7.05	7.02
TSS	Not to exceed 50	31	31	40	4
TDS		188	192	196	222
COD	Not to exceed 100	36.92	40	46.15	28.57
BOD (3 day)	Not to exceed 30	12	22.8	18.66	11.43
O & G		<2.0	<2.0	<2.0	<2.0

**TREATED SEWAGE
(STP Outlet)**

Jun-20
61.74
275.24
20.78
125.12
BDL
BDL
57.74
11.44
13.88
59.21
BDL
BDL
67.77
0.34
15.72
112.4
BDL
BDL
20.93

BDL
BDL
1.56
BDL
18.37
BDL
BDL
1.12
BDL
71.08
9.9
15.97
107.11
BDL
60.89
9.75
10.9
1.84
BDL
31.16
8.85
13.88
48.24
BDL
66.68
9.75
12.36
109.38
BDL
49.02
54.97
12.66

13.98
BDL
BDL
1.44
BDL
BDL
BDL
BDL
BDL
58.23
58.74
58.34
58.65
58.18
58.4
58.07
59.41
101.8
75.3
101.7
73.9
6.54
28
178
176
70
<2.0
6.78
27
24
186
57.6
23

<2.0
89.99
38
<0.1
<0.1
<0.01
<0.01
<0.1
<0.01
7.04
30
198
48
13
<2.0