

J.K. Cement WORKS, MANGROL (RAJ) (Unit-1)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
October' 2015 - March' 2016

DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT AND MONTH	CROSS SECTIONAL AREA OF DUCT (M2)	STACK GASES TEMP. (⁰ K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ /Sec.)	DUST CONC. (Mg/NM ³)	MEAN DUST CONC. (Mg/NM ³)	EMISSION RATE (Ts/DAY)	REMARK
	October' 2015								
05.10.2015	KILN + RAW MILL (ESP)	5.23	390	17.17	68.62	76.40	79.0	0.453	
12.10.2015	KILN + RAW MILL (ESP)	5.23	389	16.92	67.79	90.20		0.528	
19.10.2015	KILN + RAW MILL (ESP)	5.23	391	17.15	68.36	68.90		0.407	
26.10.2015	KILN + RAW MILL (ESP)	5.23	393	17.37	68.89	80.50		0.479	
	November' 2015								
03.11.2015	KILN + RAW MILL (ESP)	5.23	389	17.15	68.71	77.50	75.0	0.460	
10.11.2015	KILN + RAW MILL (ESP)	5.23	390	16.95	67.74	66.20		0.387	
19.11.2015	KILN + RAW MILL (ESP)	5.23	391	16.83	67.08	83.80		0.486	
25.11.2015	KILN + RAW MILL (ESP)	5.23	388	16.99	68.25	72.50		0.428	
	December' 2015								
01.12.2015	KILN + RAW MILL (ESP)	5.23	392	17.31	68.82	94.80	83.0	0.564	
08.12.2015	KILN + RAW MILL (ESP)	5.23	390	17.13	68.46	85.90		0.508	
22.12.2015	KILN + RAW MILL (ESP)	5.23	393	17.24	68.37	72.90		0.431	
29.12.2015	KILN + RAW MILL (ESP)	5.23	388	16.90	67.88	78.30		0.459	
	January' 2016								

05.01.2016	KILN + RAW MILL (ESP)	5.23	388	16.63	66.80	69.00	74.0	0.398	
12.01.2016	KILN + RAW MILL (ESP)	5.23	391	17.10	68.16	88.60		0.522	
19.01.2016	KILN + RAW MILL (ESP)	5.23	390	17.26	68.98	76.60		0.457	
26.01.2016	KILN + RAW MILL (ESP)	5.23	392	16.94	67.35	61.60		0.358	
	February' 2016								
01.02.2016	KILN + RAW MILL (ESP)	5.23	388	17.62	70.78	66.50	72.0	0.407	
08.02.2016	KILN + RAW MILL (ESP)	5.23	389	17.42	69.79	77.60		0.468	
15.02.2016	KILN + RAW MILL (ESP)	5.23	392	17.17	68.27	58.30		0.344	
22.02.2016	KILN + RAW MILL (ESP)	5.23	390	17.17	68.62	85.50		0.507	
	March' 2016								
03.03.2016	KILN + RAW MILL (ESP)	5.23	386	16.90	68.24	77.30	81.0	0.456	
10.03.2016	KILN + RAW MILL (ESP)	5.23	385	17.11	69.26	85.40		0.511	
17.03.2016	KILN + RAW MILL (ESP)	5.23	387	16.79	67.62	92.50		0.540	
24.03.2016	KILN + RAW MILL (ESP)	5.23	388	17.08	68.61	68.80		0.408	
	October' 2015								
05.10.2015	FOLAX COOLER (ESP)	7.07	391	7.48	40.31	34.20	35.0	0.119	
12.10.2015	FOLAX COOLER (ESP)	7.07	395	7.73	41.23	40.70		0.145	
19.10.2015	FOLAX COOLER (ESP)	7.07	390	7.16	38.68	27.00		0.090	
26.10.2015	FOLAX COOLER (ESP)	7.07	393	7.91	42.41	38.10		0.140	
	November' 2015								
03.11.2015	FOLAX COOLER (ESP)	7.07	392	7.07	38.00	37.40	39.0	0.123	
10.11.2015	FOLAX COOLER (ESP)	7.07	391	6.60	35.56	32.30		0.099	

19.11.2015	FOLAX COOLER (ESP)	7.07	394	6.86	36.68	46.20		0.146	
25.11.2015	FOLAX COOLER (ESP)	7.07	393	6.50	34.85	40.10		0.121	
	December' 2015								
01.12.2015	FOLAX COOLER (ESP)	7.07	389	8.35	45.22	45.70	37.0	0.179	
08.12.2015	FOLAX COOLER (ESP)	7.07	392	8.09	43.48	39.90		0.150	
22.12.2015	FOLAX COOLER (ESP)	7.07	393	7.81	41.87	34.30		0.124	
29.12.2015	FOLAX COOLER (ESP)	7.07	387	8.42	45.84	28.10		0.111	
	January' 2016								
05.01.2016	FOLAX COOLER (ESP)	7.07	388	6.58	35.73	46.00	40.0	0.142	
12.01.2016	FOLAX COOLER (ESP)	7.07	384	7.42	40.71	34.90		0.123	
19.01.2016	FOLAX COOLER (ESP)	7.07	390	7.98	43.11	41.10		0.153	
26.01.2016	FOLAX COOLER (ESP)	7.07	383	7.61	41.86	37.80		0.137	
	February' 2016								
01.02.2016	FOLAX COOLER (ESP)	7.07	390	7.78	42.03	27.10	34.0	0.098	
08.02.2016	FOLAX COOLER (ESP)	7.07	389	6.93	37.53	43.10		0.140	
15.02.2016	FOLAX COOLER (ESP)	7.07	392	7.18	38.59	30.10		0.100	
22.02.2016	FOLAX COOLER (ESP)	7.07	391	7.89	42.51	35.60		0.131	
	March' 2016								
03.03.2016	FOLAX COOLER (ESP)	7.07	389	6.34	34.34	59.60	48.0	0.177	
10.03.2016	FOLAX COOLER (ESP)	7.07	386	6.79	37.06	51.70		0.166	
17.03.2016	FOLAX COOLER (ESP)	7.07	383	6.53	35.92	36.10		0.112	
24.03.2016	FOLAX COOLER (ESP)	7.07	387	7.02	38.22	44.40		0.147	

	October' 2015								
05.10.2015	COAL MILL (B.F.)	0.45	343	28.52	11.15	28.90	23.0	0.028	
12.10.2015	COAL MILL (B.F.)	0.45	340	27.82	10.97	20.10		0.019	
19.10.2015	COAL MILL (B.F.)	0.45	347	28.45	10.99	24.30		0.023	
26.10.2015	COAL MILL (B.F.)	0.45	345	28.75	11.18	18.70		0.018	
	November' 2015								
03.11.2015	COAL MILL (B.F.)	0.45	338	28.22	11.20	29.80	27.0	0.029	
10.11.2015	COAL MILL (B.F.)	0.45	339	27.61	10.92	26.30		0.025	
19.11.2015	COAL MILL (B.F.)	0.45	340	27.97	11.03	27.90		0.027	
25.11.2015	COAL MILL (B.F.)	0.45	342	27.51	10.79	23.80		0.022	
	December' 2015								
01.12.2015	COAL MILL (B.F.)	0.45	342	28.65	11.23	12.70	19.0	0.012	
08.12.2015	COAL MILL (B.F.)	0.45	343	28.19	11.02	26.10		0.025	
22.12.2015	COAL MILL (B.F.)	0.45	344	28.57	11.14	21.40		0.021	
29.12.2015	COAL MILL (B.F.)	0.45	340	28.49	11.24	15.60		0.015	
	January' 2016			-					
05.01.2016	COAL MILL (B.F.)	0.45	340	27.45	10.83	18.30	21.0	0.017	
12.01.2016	COAL MILL (B.F.)	0.45	343	28.45	11.12	27.00		0.026	
19.01.2016	COAL MILL (B.F.)	0.45	345	28.07	10.91	16.30		0.015	
26.01.2016	COAL MILL (B.F.)	0.45	341	28.20	11.09	22.40		0.021	
	February' 2016								
01.02.2016	COAL MILL (B.F.)	0.45	341	28.56	11.23	21.20	18.0	0.021	

08.02.2016	COAL MILL (B.F.)	0.45	337	27.96	11.13	16.40		0.016	
15.02.2016	COAL MILL (B.F.)	0.45	343	27.72	10.84	15.00		0.014	
22.02.2016	COAL MILL (B.F.)	0.45	340	28.40	11.20	19.30		0.019	
	March' 2016								
03.03.2016	COAL MILL (B.F.)	0.45	339	27.71	10.96	19.90	15.0	0.019	
10.03.2016	COAL MILL (B.F.)	0.45	342	27.16	10.65	10.70		0.010	
17.03.2016	COAL MILL (B.F.)	0.45	338	28.32	11.24	13.10		0.013	
24.03.2016	COAL MILL (B.F.)	0.45	343	27.53	10.76	16.40		0.015	
	October' 2015								
07.10.2015	CEMENT MILL No.-1 (B.F.)	Mill Under Maintenance							
14.10.2015	CEMENT MILL No.-1 (B.F.)								
21.10.2015	CEMENT MILL No.-1 (B.F.)								
28.10.2015	CEMENT MILL No.-1 (B.F.)								
	November' 2015								
3.11.2015	CEMENT MILL - 1 (B.F.)	Mill Under Maintenance							
10.11.2015	CEMENT MILL - 1 (B.F.)								
17.11.2015	CEMENT MILL - 1 (B.F.)								
30.11.2015	CEMENT MILL - 1 (B.F.)								
	December' 2015								
02.12.2015	CEMENT MILL No.-1 (B.F.)	Mill Under Maintenance							
09.12.2015	CEMENT MILL No.-1 (B.F.)								
16.12.2015	CEMENT MILL No.-1 (B.F.)								

31.12.2015	CEMENT MILL No.-1 (B.F.)								
	January' 2016			-					
05.01.2016	CEMENT MILL - 1 (B.F.)	Under Maintenance					29.2		
16.01.2016	CEMENT MILL - 1 (B.F.)								
23.01.2016	CEMENT MILL - 1 (B.F.)								
30.01.2016	CEMENT MILL - 1 (B.F.)	0.33	358	6.95	1.91	29.20		0.005	
	February' 2016			-					
01.02.2016	CEMENT MILL No.-1 (B.F.)	0.33	342	7.66	2.20	34.20	31.0	0.007	
08.02.2016	CEMENT MILL No.-1 (B.F.)	0.33	345	6.67	1.90	27.70		0.005	
15.02.2016	CEMENT MILL No.-1 (B.F.)	Mill under maintenance							
29.02.2016	CEMENT MILL No.-1 (B.F.)								
	March' 2016			-					
03.03.2016	CEMENT MILL - 1 (B.F.)	Mill Under Maintenance							
10.03.2016	CEMENT MILL - 1 (B.F.)								
17.03.2016	CEMENT MILL - 1 (B.F.)								
31.03.2016	CEMENT MILL - 1 (B.F.)								
	October' 2015								
07.10.2015	CEMENT MILL No.-2 (ESP)	0.50	365	7.48	3.05	45.40	37.0	0.012	
15.10.2015	CEMENT MILL No.-2 (ESP)	0.50	362	8.02	3.30	39.90		0.011	
21.10.2015	CEMENT MILL No.-2 (ESP)	0.50	363	7.61	3.12	28.70		0.008	
28.10.2015	CEMENT MILL No.-2 (ESP)	0.50	364	7.83	3.21	33.80		0.009	
	November' 2015								

03.11.2015	CEMENT MILL No.-2 (ESP)	0.50	365	7.48	3.05	41.60	34.0	0.011	
10.11.2015	CEMENT MILL No.-2 (ESP)	0.50	362	7.81	3.21	30.60		0.008	
17.11.2015	CEMENT MILL No.-2 (ESP)	0.50	364	8.05	3.30	35.50		0.010	
25.11.2015	CEMENT MILL No.-2 (ESP)	0.50	363	7.53	3.09	28.10		0.008	
	December' 2015								
02.12.2015	CEMENT MILL No.-2 (ESP)	0.50	362	8.30	3.42	27.80	31.0	0.008	
08.12.2015	CEMENT MILL No.-2 (ESP)	0.50	364	7.98	3.27	39.10		0.011	
15.12.2015	CEMENT MILL No.-2 (ESP)	0.50	361	7.66	3.16	23.60		0.006	
22.12.2015	CEMENT MILL No.-2 (ESP)	0.50	365	8.13	3.32	33.50		0.010	
	January' 2016			-					
05.01.2016	CEMENT MILL No.-2 (ESP)	0.50	360	7.79	3.22	27.20	33.0	0.008	
12.01.2016	CEMENT MILL No.-2 (ESP)	0.50	363	7.46	3.06	40.50		0.011	
19.01.2016	CEMENT MILL No.-2 (ESP)	0.50	361	8.28	3.42	34.80		0.010	
26.01.2016	CEMENT MILL No.-2 (ESP)	0.50	362	8.02	3.30	29.30		0.008	
	February' 2016			-					
01.02.2016	CEMENT MILL No.-2 (ESP)	0.50	363	8.03	3.30	44.60	36.0	0.013	
08.02.2016	CEMENT MILL No.-2 (ESP)	0.50	360	8.27	3.42	30.90		0.009	
16.02.2016	CEMENT MILL No.-2 (ESP)	0.50	367	7.43	3.02	41.30		0.011	
22.02.2016	CEMENT MILL No.-2 (ESP)	0.50	364	7.83	3.21	27.00		0.007	
	March' 2016			-					
03.03.2016	CEMENT MILL No.-2 (ESP)	0.50	358	7.84	3.26	45.80	34.0	0.013	
11.03.2016	CEMENT MILL No.-2 (ESP)	0.50	364	8.18	3.35	37.00		0.011	

17.03.2016	CEMENT MILL No.-2 (ESP)	0.50	362	7.60	3.13	30.90		0.008	
25.03.2016	CEMENT MILL No.-2 (ESP)	0.50	360	8.27	3.42	22.30		0.007	
	October' 2015								
05.10.2015	Crusher-1 (B.F.)	0.38	313	13.94	5.04	29.10	24.0	0.013	
12.10.2015	Crusher-1 (B.F.)	0.38	310	13.56	4.95	18.60		0.008	
19.10.2015	Crusher-1 (B.F.)	0.38	309	13.72	5.03	25.80		0.011	
26.10.2015	Crusher-1 (B.F.)	0.38	311	14.07	5.12	22.50		0.010	
	November' 2015								
3.11.2015	Crusher-1 (B.F.)	0.38	312	13.74	4.99	21.50	22.0	0.009	
10.11.2015	Crusher-1 (B.F.)	0.38	313	13.58	4.91	18.00		0.008	
17.11.2015	Crusher-1 (B.F.)	0.38	311	13.90	5.06	25.70		0.011	
24.11.2015	Crusher-1 (B.F.)	0.38	314	13.69	4.94	22.70		0.010	
	December' 2015								
01.12.2015	Crusher-1 (B.F.)	0.38	310	13.87	5.07	29.40	27.5	0.013	
08.12.2015	Crusher-1 (B.F.)	0.38	309	13.54	4.96	27.10		0.012	
22.12.2015	Crusher-1 (B.F.)	0.38	308	13.65	5.02	28.50		0.012	
29.12.2015	Crusher-1 (B.F.)	0.38	311	14.16	5.16	24.90		0.011	
	January' 2016								
05.01.2016	Crusher-1 (B.F.)	0.38	312	13.42	4.87	22.90	20.0	0.010	
12.01.2016	Crusher-1 (B.F.)	0.38	308	13.83	5.08	15.90		0.007	
19.01.2016	Crusher-1 (B.F.)	0.38	311	13.63	4.96	27.40		0.012	
26.01.2016	Crusher-1 (B.F.)	0.38	310	13.56	4.95	13.70		0.006	

	February' 2016								
01.02.2016	Crusher-1 (B.F.)	0.38	314	14.36	5.18	27.50	26.0	0.012	
08.02.2016	Crusher-1 (B.F.)	0.38	311	13.76	5.01	29.20		0.013	
15.02.2016	Crusher-1 (B.F.)	0.38	313	13.62	4.93	22.20		0.009	
22.02.2016	Crusher-1 (B.F.)	0.38	316	14.05	5.03	24.90		0.011	
	March' 2016								
03.03.2016	Crusher-1 (B.F.)	0.38	310	13.42	4.90	36.60	31.0	0.015	
11.03.2016	Crusher-1 (B.F.)	0.38	313	13.76	4.98	28.00		0.012	
18.03.2016	Crusher-1 (B.F.)	0.38	309	13.54	4.96	25.50		0.011	
25.03.2016	Crusher-1 (B.F.)	0.38	312	13.51	4.90	33.70		0.014	

J.K. Cement WORKS, MANGROL (RAJ) (Unit-2)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
October' 2015 - March ' 2016

DATE	NAME OF THE STACK / DUCT ATTACHED WITH UNIT AND MONTH	CROSS SECTIONAL AREA OF DUCT (M2)	STACK GASES TEMP. (⁰ K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ /Sec.)	DUST CONC. (Mg/NM ³)	MEAN DUST CONC. (Mg/NM ³)	EMISSION RATE (Ts/DAY)	REMARK
	October' 2015			-					
06.10.2015	KILN + RAW MILL (Bag House)	Kiln Under Maintenance							
13.10.2015	KILN + RAW MILL (Bag House)								
20.10.2015	KILN + RAW MILL (Bag House)								
31.10.2015	KILN + RAW MILL (Bag House)								
	November' 2015								
03.11.2015	KILN + RAW MILL (Bag House)	Kiln Under Maintenance					18.0		
10.11.2015	KILN + RAW MILL (Bag House)								
18.11.2015	KILN + RAW MILL (Bag House)	14.18	415	13.17	134.10	20.90		0.242	
25.11.2015	KILN + RAW MILL (Bag House)	14.18	417	12.75	129.20	15.10		0.169	
	December' 2015								
04.12.2015	KILN + RAW MILL (Bag House)	14.18	415	12.33	125.55	14.60	16.0	0.158	
11.12.2015	KILN + RAW MILL (Bag House)	14.18	411	12.98	133.45	16.60		0.191	
18.12.2015	KILN + RAW MILL (Bag House)	14.18	412	12.81	131.38	19.90		0.226	
25.12.2015	KILN + RAW MILL (Bag House)	14.18	414	12.58	128.40	12.70		0.141	

	January' 2016								
06.01.2016	KILN + RAW MILL (Bag House)	14.18	411	12.47	128.21	26.70	22.0	0.296	
14.01.2016	KILN + RAW MILL (Bag House)	14.18	415	12.66	128.91	23.60		0.263	
20.01.2016	KILN + RAW MILL (Bag House)	14.18	413	12.95	132.50	16.90		0.193	
27.01.2016	KILN + RAW MILL (Bag House)	14.18	412	12.15	124.62	20.80		0.224	
	February' 2016								
04.02.2016	KILN + RAW MILL (Bag House)	14.18	378	11.76	131.46	18.10	20.0	0.206	
11.02.2016	KILN + RAW MILL (Bag House)	14.18	375	12.22	137.70	20.90		0.249	
18.02.2016	KILN + RAW MILL (Bag House)	14.18	377	12.13	135.96	15.50		0.182	
25.02.2016	KILN + RAW MILL (Bag House)	14.18	373	11.49	130.17	25.40		0.286	
	March' 2016								
04.03.2016	KILN + RAW MILL (Bag House)	14.18	380	12.17	135.33	18.90	19.0	0.221	
11.03.2016	KILN + RAW MILL (Bag House)	Kiln Under Maintenance							
18.03.2016	KILN + RAW MILL (Bag House)	14.18	378	11.83	132.25	23.80		0.272	
25.03.2016	KILN + RAW MILL (Bag House)	14.18	381	12.62	139.97	14.40		0.174	
	October' 2015								
06.10.2015	FOLAX COOLER (E.S.P)	Under Maintenance							
13.10.2015	FOLAX COOLER (E.S.P)								
20.10.2015	FOLAX COOLER (E.S.P)								
31.10.2015	FOLAX COOLER (E.S.P)								
	November' 2015								
03.11.2015	FOLAX COOLER (E.S.P)	Under Maintenance					21.0		

10.11.2015	FOLAX COOLER (E.S.P)								
18.11.2015	FOLAX COOLER (E.S.P)	8.80	395	10.34	68.65	23.60		0.140	
25.11.2015	FOLAX COOLER (E.S.P)	8.80	392	9.99	66.83	18.40		0.106	
	December' 2015								
04.12.2015	FOLAX COOLER (E.S.P)	8.80	392	10.07	67.37	21.30	23.0	0.124	
11.12.2015	FOLAX COOLER (E.S.P)	8.80	395	10.34	68.65	27.60		0.164	
18.12.2015	FOLAX COOLER (E.S.P)	8.80	393	9.61	64.13	24.00		0.106	
25.12.2015	FOLAX COOLER (E.S.P)	8.80	394	9.86	65.63	19.10		0.136	
	January' 2016								
06.01.2016	FOLAX COOLER (E.S.P)	8.80	390	9.57	64.35	22.30	26.0	0.124	
14.01.2016	FOLAX COOLER (E.S.P)	8.80	391	10.29	69.01	27.20		0.162	
20.01.2016	FOLAX COOLER (E.S.P)	8.80	393	9.85	65.73	24.80		0.141	
27.01.2016	FOLAX COOLER (E.S.P)	8.80	389	9.64	64.99	29.60		0.166	
	February' 2016								
04.02.2016	FOLAX COOLER (E.S.P)	8.80	389	10.26	69.17	21.40	17.0	0.128	
11.02.2016	FOLAX COOLER (E.S.P)	8.80	390	9.81	65.96	12.70		0.072	
18.02.2016	FOLAX COOLER (E.S.P)	8.80	391	10.51	70.49	14.90		0.091	
25.02.2016	FOLAX COOLER (E.S.P)	8.80	388	10.10	68.26	18.90		0.111	
	March' 2016								
04.03.2016	FOLAX COOLER (E.S.P)	8.80	389	9.80	66.07	19.40	16.0	0.111	
11.03.2016	FOLAX COOLER (E.S.P)	Kiln Under Maintenance							
18.03.2016	FOLAX COOLER (E.S.P)	8.80	388	9.13	61.71	13.1		0.070	

25.03.2016	FOLAX COOLER (E.S.P)	8.80	390	10.04	67.51	15.5		0.090	
	October' 2015								
06.10.2015	COAL MILL (B.F.)	Mill Under Maintenance							
13.10.2015	COAL MILL (B.F.)								
20.10.2015	COAL MILL (B.F.)								
31.10.2015	COAL MILL (B.F.)								
	November' 2015								
03.11.2015	COAL MILL (B.F.)	Mill Under Maintenance					15.0		
10.11.2015	COAL MILL (B.F.)								
18.11.2015	COAL MILL (B.F.)	2.00	342	14.05	24.48	16.70		0.035	
25.11.2015	COAL MILL (B.F.)	2.00	344	14.23	24.65	13.20		0.028	
	December' 2015								
04.12.2015	COAL MILL (B.F.)	2.00	342	14.29	24.90	9.90	13.0	0.021	
11.12.2015	COAL MILL (B.F.)	2.00	340	13.86	24.30	17.40		0.037	
18.12.2015	COAL MILL (B.F.)	2.00	343	14.12	24.54	13.80		0.029	
25.12.2015	COAL MILL (B.F.)	2.00	341	14.22	24.85	11.00		0.024	
	January' 2016								
06.01.2016	COAL MILL (B.F.)	2.00	342	14.38	25.06	27.00	23.0	0.058	
14.01.2016	COAL MILL (B.F.)	2.00	345	13.96	24.12	21.40		0.045	
20.01.2016	COAL MILL (B.F.)	2.00	341	14.27	24.94	17.80		0.038	
27.01.2016	COAL MILL (B.F.)	2.00	343	14.17	24.62	25.90		0.055	
	February' 2016								

04.02.2016	COAL MILL (B.F.)	2.00	343	14.45	25.11	20.90	21.0	0.045	
11.02.2016	COAL MILL (B.F.)	2.00	340	14.25	24.98	25.50		0.055	
18.02.2016	COAL MILL (B.F.)	2.00	341	14.22	24.85	15.70		0.034	
25.02.2016	COAL MILL (B.F.)	2.00	345	14.64	25.29	22.00		0.048	
	March' 2016								
04.03.2016	COAL MILL (B.F.)	2.00	340	14.53	25.47	28.1	24.0	0.062	
11.03.2016	COAL MILL (B.F.)	Mill under Maintenance							
18.03.2016	COAL MILL (B.F.)	2.00	342	13.95	24.31	24.30		0.051	
25.03.2016	COAL MILL (B.F.)	2.00	345	14.45	24.96	19.50		0.042	
	October' 2015								
01.10.2015	CEMENT MILL - 3 (Bag filter)	6.60	365	10.23	55.12	24.80	22.00	0.118	
16.10.2015	CEMENT MILL - 3 (Bag filter)	6.60	362	9.60	52.16	16.80		0.076	
21.10.2015	CEMENT MILL - 3 (Bag filter)	6.60	364	9.25	49.98	26.70		0.115	
30.10.2015	CEMENT MILL - 3 (Bag filter)	6.60	361	9.74	53.07	19.70		0.090	
	November' 2015								
04.11.2015	CEMENT MILL - 3 (Bag filter)	6.60	364	10.77	58.19	19.10	20.0	0.096	
14.11.2015	CEMENT MILL - 3 (Bag filter)	6.60	361	10.38	56.55	23.90		0.117	
21.11.2015	CEMENT MILL - 3 (Bag filter)	6.60	363	9.91	53.69	16.50		0.077	
28.11.2015	CEMENT MILL - 3 (Bag filter)	6.60	360	10.16	55.51	20.60		0.099	
	December' 2015								
04.12.2015	CEMENT MILL - 3 (Bag filter)	6.60	365	9.49	51.14	19.20	21.0	0.085	
11.12.2015	CEMENT MILL - 3 (Bag filter)	6.60	362	9.68	52.59	21.50		0.098	

	November' 2015								
06.11.2015	CRUSHER-2 (B.F.)	Mill Under Maintenance					22.0		
13.11.2015	CRUSHER-2 (B.F.)								
20.11.2015	CRUSHER-2 (B.F.)							0.025	
27.11.2015	CRUSHER-2 (B.F.)							0.021	
	December' 2015								
04.12.2015	CRUSHER-2 (B.F.)	1.23	311	9.95	11.69	12.90	17.0	0.013	
11.12.2015	CRUSHER-2 (B.F.)	1.23	313	10.23	11.94	19.30		0.020	
18.12.2015	CRUSHER-2 (B.F.)	1.23	309	10.04	11.87	14.90		0.015	
25.12.2015	CRUSHER-2 (B.F.)	1.23	310	9.87	11.63	21.00		0.021	
	January' 2016								
05.01.2016	CRUSHER-2 (B.F.)	1.23	308	9.78	11.60	27.30	27.0	0.027	
12.01.2016	CRUSHER-2 (B.F.)	1.23	309	10.04	11.87	29.9		0.031	
19.01.2016	CRUSHER-2 (B.F.)	1.23	305	10.22	12.24	24.5		0.026	
26.01.2016	CRUSHER-2 (B.F.)	1.23	307	10.49	12.48	26.4		0.028	
	February' 2016								
01.02.2016	CRUSHER-2 (B.F.)	1.23	313	10.88	12.7	21.2	23.0	0.023	
09.02.2016	CRUSHER-2 (B.F.)	1.23	315	10.38	12.04	27.8		0.029	
15.02.2016	CRUSHER-2 (B.F.)	1.23	314	10.12	11.77	18.4		0.019	
25.02.2016	CRUSHER-2 (B.F.)	1.23	312	10.69	12.52	24.7		0.027	
	March' 2016								
04.03.2016	CRUSHER-2 (B.F.)	1.23	311	10.26	12.05	23	21.0	0.024	

11.03.2016	CRUSHER-2 (B.F.)	Mill under Maintenance							
18.03.2016	CRUSHER-2 (B.F.)								
25.03.2016	CRUSHER-2 (B.F.)	1.23	312	10.39	12.17	19		0.020	
	October' 2015								
01.10.2015	PACKER-1 (B.F.)	0.785	323	11.78	8.53	24.3	20.0	0.018	
10.10.2015	PACKER-1 (B.F.)	0.785	320	11.4	8.33	22.2		0.016	
19.10.2015	PACKER-1 (B.F.)	0.785	321	11.64	8.48	14.5		0.011	
27.10.2015	PACKER-1 (B.F.)	0.785	324	11.24	8.12	19.0		0.013	
	November' 2015								
04.11.2015	PACKER-1 (B.F.)	0.785	322	11.43	8.3	14.9	17.0	0.011	
13.11.2015	PACKER-1 (B.F.)	0.785	323	11.62	8.42	23.8		0.017	
21.11.2015	PACKER-1 (B.F.)	0.785	320	11.73	8.57	12.4		0.009	
27.11.2015	PACKER-1 (B.F.)	0.785	325	11.37	8.18	16.8		0.012	
	December' 2015								
02.12.2015	PACKER-1 (B.F.)	0.785	322	11.54	8.38	20.3	24.0	0.015	
11.12.2015	PACKER-1 (B.F.)	0.785	321	11.3	8.23	28.1		0.020	
18.12.2015	PACKER-1 (B.F.)	0.785	323	11.67	8.45	25.1		0.018	
26.12.2015	PACKER-1 (B.F.)	0.785	325	11.82	8.51	22.4		0.016	
	January' 2016								
05.01.2016	PACKER-1 (B.F.)	0.785	319	11.27	8.26	18	15.0	0.013	
13.01.2016	PACKER-1 (B.F.)	0.785	321	11.75	8.56	15.4		0.011	
19.01.2016	PACKER-1 (B.F.)	0.785	318	11.36	8.36	13.8		0.010	

26.01.2016	PACKER-1 (B.F.)	0.785	322	11.6	8.43	12.8		0.009	
	February' 2016								
03.02.2016	PACKER-1 (B.F.)	Mill under Maintenance					22.0		
15.02.2016	PACKER-1 (B.F.)	0.785	322	11.6	8.43	22.1		0.016	
22.02.2016	PACKER-1 (B.F.)	0.785	326	11.95	8.58	18.8		0.014	
29.02.2016	PACKER-1 (B.F.)	0.785	323	11.78	8.53	25.2		0.019	
	March' 2016								
05.03.2016	PACKER-1 (B.F.)	0.785	317	11.18	8.25	27.1	23.0	0.019	
12.03.2016	PACKER-1 (B.F.)	0.785	315	11.31	8.4	21.7		0.016	
19.03.2016	PACKER-1 (B.F.)	0.785	322	11.87	8.62	19		0.014	
26.03.2016	PACKER-1 (B.F.)	0.785	319	11.66	8.55	24		0.018	
	October' 2015								
01.10.2015	PACKER-2 (B.F.)	0.785	321	12.99	9.47	28.3	27.0	0.023	
11.10.2015	PACKER-2 (B.F.)	0.785	326	12.32	8.84	26.7		0.020	
19.10.2015	PACKER-2 (B.F.)	0.785	323	12.88	9.33	29.9		0.024	
27.10.2015	PACKER-2 (B.F.)	0.785	320	12.47	9.12	23		0.018	
	November' 2015								
04.11.2015	PACKER-2 (B.F.)	0.785	325	13.07	9.41	22.3	23.0	0.018	
14.11.2015	PACKER-2 (B.F.)	0.785	324	12.59	9.09	27.3		0.021	
21.11.2015	PACKER-2 (B.F.)	0.785	322	12.66	9.2	19.0		0.015	
27.11.2015	PACKER-2 (B.F.)	0.785	323	12.42	9.0	23.4		0.018	
	December' 2015								

2.12.2015	PACKER-2 (B.F.)	0.785	320	12.26	8.96	28.8	25.0	0.022	
11.12.2015	PACKER-2 (B.F.)	0.785	322	13.10	9.52	23.8		0.020	
18.12.2015	PACKER-2 (B.F.)	0.785	321	12.54	9.14	21.8		0.017	
26.12.2015	PACKER-2 (B.F.)	0.785	324	12.95	9.35	25.6		0.021	
	January' 2016								
05.01.2016	PACKER-2 (B.F.)	0.785	322	12.5	9.08	30	28.0	0.024	
13.01.2016	PACKER-2 (B.F.)	0.785	324	12.18	8.79	27.8		0.021	
19.01.2016	PACKER-2 (B.F.)	0.785	321	12.38	9.02	29		0.023	
27.01.2016	PACKER-2 (B.F.)	0.785	323	12.78	9.26	25.3		0.020	
	February' 2016								
03.02.2016	PACKER-2 (B.F.)	Under Maintenance					19.0		
15.02.2016	PACKER-2 (B.F.)	0.785	329	13.3	9.46	23.8		0.019	
22.02.2016	PACKER-2 (B.F.)	0.785	323	12.57	9.1	18		0.014	
29.02.2016	PACKER-2 (B.F.)	0.785	324	13.05	9.42	15.1		0.012	
	March' 2016								
05.03.2016	PACKER-2 (B.F.)	0.785	320	12.77	9.34	17.1	17.0	0.014	
12.03.2016	PACKER-2 (B.F.)	0.785	322	12.25	8.9	15.3		0.012	
19.03.2016	PACKER-2 (B.F.)	0.785	326	12.58	9.03	21.9		0.017	
26.03.2016	PACKER-2 (B.F.)	0.785	324	12.95	9.35	13.5		0.011	
	October' 2015								
1.10.2015	PACKER-3 (B.F.)	0.785	321	12.38	9.02	21.8	25	0.017	
11.10.2015	PACKER-3 (B.F.)	0.785	323	12.26	8.88	28.8		0.022	

19.10.2015	PACKER-3 (B.F.)	0.785	324	12.34	8.91	25.7		0.020	
27.10.2015	PACKER-3 (B.F.)	0.785	320	12.67	9.26	23.7		0.019	
	November' 2015								
04.11.2015	PACKER-3(B.F.)	0.785	325	12.72	9.16	29.4	27	0.023	
14.11.2015	PACKER-3(B.F.)	0.785	323	12.37	8.96	26.5		0.021	
21.11.2015	PACKER-3(B.F.)	0.785	321	12.48	9.09	23.4		0.018	
27.11.2015	PACKER-3(B.F.)	0.785	324	12.65	9.13	28.7		0.023	
	December' 2015								
2.12.2015	PACKER-3(B.F.)	0.785	322	11.98	8.7	14.7	18.0	0.011	
11.12.2015	PACKER-3(B.F.)	0.785	320	11.73	8.57	21.3		0.016	
18.12.2015	PACKER-3(B.F.)	0.785	326	12.58	9.03	16.5		0.013	
26.12.2015	PACKER-3(B.F.)	0.785	323	12.21	8.84	19.6		0.015	
	January' 2016								
05.01.2016	PACKER-3 (B.F.)	0.785	319	12.29	9.01	19.6	16.0	0.015	
13.01.2016	PACKER-3 (B.F.)	0.785	321	12.64	9.21	14.2		0.011	
19.01.2016	PACKER-3 (B.F.)	0.785	323	12.16	8.81	18.2		0.014	
27.01.2016	PACKER-3 (B.F.)	0.785	322	12.5	9.08	11.9		0.009	
	February' 2016								
03.02.2016	PACKER-3(B.F.)	0.785	328	12.98	9.26	23.8	26.0	0.019	
10.02.2016	PACKER-3(B.F.)	Under Maintenance							
15.02.2016	PACKER-3(B.F.)	0.785	329	12.43	8.84	29.3		0.022	
22.02.2016	PACKER-3(B.F.)	0.785	322	12.91	9.38	24.9		0.020	

	March' 2016								
05.03.2016	PACKER-3(B.F.)	0.785	325	12.72	9.16	27.1	20.0	0.021	
12.03.2016	PACKER-3(B.F.)	0.785	322	12.19	8.86	18.4		0.014	
19.03.2016	PACKER-3(B.F.)	0.785	321	12.33	8.99	14.3		0.011	
29.03.2016	PACKER-3(B.F.)	0.785	326	12.63	9.06	20.2		0.016	
	October' 2015								
01.10.2015	PACKER-4 (B.F.)	Under Maintenance					24.0		
08.10.2015	PACKER-4 (B.F.)								
15.10.2015	PACKER-4 (B.F.)								
31.10.2015	PACKER-4 (B.F.)	0.785	327	12.81	9.16	24		0.019	
	November' 2015								
07.11.2015	PACKER-4(B.F.)	0.785	324	12.7	9.17	21.5	18.0	0.017	
14.11.2015	PACKER-4(B.F.)	0.785	325	12.97	9.34	14.4		0.012	
20.11.2015	PACKER-4(B.F.)	0.785	322	12.76	9.27	16.6		0.013	
28.11.2015	PACKER-4(B.F.)	0.785	323	12.88	9.33	19.5		0.016	
	December' 2015								
5.12.2015	PACKER-4(B.F.)	0.785	322	12.71	9.23	12.8	15.0	0.010	
15.12.2015	PACKER-4(B.F.)	0.785	326	12.48	8.96	19.6		0.015	
25.12.2015	PACKER-4(B.F.)	0.785	325	12.41	8.93	16.8		0.013	
31.12.2015	PACKER-4(B.F.)	0.785	324	12.95	9.35	10.9		0.009	
	January' 2016								
05.01.2016	PACKER-4 (B.F.)	Under Maintenance					25.0		

13.01.2016	PACKER-4 (B.F.)								
18.01.2016	PACKER-4 (B.F.)	0.785	324	12.44	8.98	21.6		0.017	
26.01.2016	PACKER-4 (B.F.)	0.785	326	12.58	9.03	28.4		0.022	
	February' 2016								
03.02.2016	PACKER-4(B.F.)	Under Maintenance					16.0		
15.02.2016	PACKER-4(B.F.)	0.785	322	12.35	8.97	15.7		0.012	
23.02.2016	PACKER-4(B.F.)	0.785	325	12.56	9.04	20.1		0.016	
29.02.2016	PACKER-4(B.F.)	0.785	326	12.74	9.14	12.2		0.010	
	March' 2016								
05.03.2016	PACKER-4(B.F.)	0.785	324	12.85	9.28	24.1	27.0	0.019	
12.03.2016	PACKER-4(B.F.)	0.785	322	12.56	9.12	29.4		0.023	
19.03.2016	PACKER-4(B.F.)	0.785	320	12.47	9.12	26.4		0.021	
29.03.2016	PACKER-4(B.F.)	0.785	325	13.02	9.37	27.6		0.022	

J.K. Cement WORKS, MANGROL (RAJ)
AMBIENT AIR QUALITY AVERAGE RESULTS (SPM) COMMON FOR UNIT-1 & UNIT-2
(ALL VALUES IN MICROGRAMS / CUBIC METER)
(October' 2015 - March' 16)

S.No. & Month	LOCATION / PERAMETER	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR RAW MATERIAL GATE	NEAR PACKING PLANT GATE	Remarks
October' 2015						
1	SPM	351.0	356.5	338.3	320.2	
2	SO2	13.4	14.1	12.7	9.5	
3	NOX	24.1	27.3	23.9	19.6	
4	CO	550.0	650.0	600.0	600.0	
November' 2015						
1	SPM	337.2	353.0	335.2	313.5	
2	SO2	12.5	14.9	12.9	10.7	
3	NOX	23.8	29.0	24.1	21.9	
4	CO	500.0	600.0	575.0	650.0	
December' 2015						
1	SPM	336.0	352.0	330.0	313.3	
2	SO2	12.6	13.8	10.8	10.0	
3	NOX	22.7	24.7	22.0	20.0	

4	CO	525.0	625.0	600.0	625.0	
January' 2016						
1	SPM	364.2	392.5	357.5	345.8	
2	SO2	13.4	17.2	15.5	13.8	
3	NOX	22.9	30.3	26.5	24.6	
4	CO	600.0	600.0	600.0	650.0	
February' 2016						
1	SPM	352.8	321.8	339.5	364.2	
2	SO2	14.4	11.9	13.5	16.3	
3	NOX	26.3	22.0	24.2	28.7	
4	CO	715.6	687.0	687.0	715.6	
March' 2016						
1	SPM	338.0	365.5	347.0	319.2	
2	SO2	13.3	15.4	12.3	10.1	
3	NOX	27.9	29.9	24.2	20.8	
4	CO	744.3	715.6	744.3	744.3	
Six monthly Average						
1	SPM	346.5	356.9	341.3	329.4	
2	SO2	13.3	14.6	13.0	11.7	
3	NOX	24.6	27.2	24.2	22.6	
4	CO	605.8	646.3	634.4	664.2	

J.K. Cement Works, Mangrol (Unit-1)
Fugitive Emission Monitoring Report
(October' 2015- March' 2016)

S.No.	Month/Year	SPM (µg/m3)			
		NEAR COAL YARD-1	NEAR LIMESTONE CRUSHING SITE-1	NEAR STACKER RECLAIMER-1	NEAR GYPSUM YARD-1
1	Oct-15	1407.6	2277.5	2471.8	1698.2
2	Nov-15	1302.1	2503.5	2186.6	1465.4
3	Dec-15	1387.7	2343.8	2307.4	1392.4
4	Jan-16	1465.4	2247.9	2402.8	1631.4
5	Feb-16	1381.9	1719.6	1687.9	1470.4
6	Mar-16	1556.5	1876.8	2055.8	1590.3

J.K. Cement Works, Mangrol (Unit-2)
Fugitive Emission Monitoring Report
(October' 2015- March' 2016)

S.No.	Month/Year	SPM ($\mu\text{g}/\text{m}^3$)			
		NEAR COAL YARD-2	NEAR LIMESTONE CRUSHING SITE-2	NEAR STACKER RECLAIMER-2	NEAR GYPSUM YARD-2
1	Oct-15	875.4	Plant Stop	Plant Stop	1246.6
2	Nov-15	954.9	1758.9	1673.4	1321.1
3	Dec-15	1188.0	1736.1	1714.1	1437.8
4	Jan-16	1490.1	1715.7	1777.8	1305.1
5	Feb-16	1484.6	1764.9	1707.7	1430.6
6	Mar-16	1374.0	1750.0	1740.2	1550.5