

J.K. Cement WORKS, NIMBAHERA (RAJ)

AMBIENT AIR QUALITY DATA

NIMBAHERA - AHIRPURA MINE (Core Zone)

(NA1) Location :- Near Mine Gate

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	342.8	45.8	12.6	21.7	858.8	
2	May '16	330.3	44.6	11.9	25.2	687.0	
3	June'16	321.8	44.3	11.4	24.5	801.5	
4	July'16	333.1	45.4	13.9	25.7	458.0	
5	August'16	174.5	23.2	5.5	10.2	343.5	
6	September'16	291.9	35.2	9.0	20.9	629.8	

(NA2) Location :- Near Mine Water Pump

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	381.0	54.0	18.0	34.0	801.5	
2	May '16	379.0	51.2	14.6	26.0	973.3	
3	June'16	360.0	53.0	16.0	30.0	858.8	
4	July'16	352.0	50.0	15.6	28.0	859	
5	August'16	201.0	29.0	7.4	14.0	171.8	
6	September'16	336.0	48.0	12.6	24.4	515.3	

(NA3) Location :- 3 to 10 Meter Distance From Drilling Operation

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	430.0	57.0	21.0	38.0	916.0	
2	May '16	408.0	54.2	18.8	32.0	572.5	
3	June'16	380.0	56.0	14.0	34.0	629.8	
4	July'16	315.0	52.0	12.0	20.0	629.8	
5	August'16	216.0	38.0	9.1	19.0	400.8	
6	September'16	367.0	50.0	15.7	31.4	572.5	

(NA8) Location :- Near Loading Point

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	356.0	47.0	15.0	25.0	687.0	
2	May '16	361.0	49.4	13.4	22.7	1030.5	

3	June'16	370.0	50.0	12.0	28.0	973.3	
4	July'16	335.0	48.0	10.0	18.0	973	
5	August'16	198.0	25.0	6.2	11.4	286.3	
6	September'16	317.0	43.0	10.7	23.4	458.0	

Note : ALL VALUES IN MICROGRAMS / CUBIC METER ($\mu\text{g}/\text{M}^3$)

J.K. Cement WORKS, NIMBAHERA (RAJ)

AMBIENT AIR QUALITY DATA

NIMBAHERA - AHIRPURA MINE (Buffer Zone)

(NA4) Location :- Near Ravana Office of MaliaKhera Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	361.0	52.0	18.0	36.0	1030.5	
2	May '16	369.0	49.4	20.2	37.8	629.8	
3	June'16	350.0	48.0	14.8	27.6	916.0	
4	July'16	315.0	45.0	12.4	23.6	916.0	
5	August'16	208.0	34.0	9.6	16.1	286.3	
6	September'16	304.0	40.0	11.4	22.4	400.8	

(NA5) Location :- Near Packing plant gate of J.K Mangrol Plant

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	356.0	46.8	15.2	26.8	801.5	
2	May '16	362.5	45.2	12.4	23.3	863.5	
3	June'16	316.0	40.1	10.8	24.7	658.4	
4	July'16	268.3	36.1	8.1	16.3	653.6	
5	August'16	188.2	27.7	6.3	12.3	300.6	
6	September'16	257.3	38.2	9.0	19.1	601.1	

(NA6) Location :- Near Mine Office of Karunda Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	326.0	42.0	10.6	21.4	801.5	
2	May '16	332.0	43.2	12.1	21.1	802	
3	June'16	310.0	39.0	9.2	18.6	858.8	
4	July'16	270.0	33.0	8.5	19.6	572.5	
5	August'16	169.0	20.6	7.1	15.1	229.0	
6	September'16	222.0	30.0	6.8	14.6	572.5	

(NA7) Location :- Near New J.K.Factory Gate Nimbahera Plant

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	353.3	44.9	13.0	22.9	744.3	
2	May '16	367.7	46.3	13.2	25.1	729.9	
3	June'16	323.5	42.0	11.6	22.8	730	
4	July'16	320.2	43.8	12.9	24.3	744.3	
5	August'16	204.8	30.7	6.0	12.1	410.3	
6	September'16	250.8	34.3	12.0	22.2	534.3	

Note : ALL VALUES IN MICROGRAMS / CUBIC METER ($\mu\text{g}/\text{M}^3$)

J.K. Cement LIMESTONE MINE (AHIRPURA BLOCK)

Peak particle velocity report for the period of April'16 to Sept'16

Serial Number	Date of Blast	Location	No. Of Holes	No. Of Rows	Charge per delay in Kg.	of instrument from Blast site	PPV mm/sec.
1	2	3	4	5	7	8	9
1	04.04.2016	IINM	4	1	35.71	300	5.63
2	08.05.2016	IV SM	14	2	15.27	225	3.01
3	14.05.2016	IV SW	12	3	15.97	225	2.05
4	15.05.2016	III SW	8	1	32.64	200	4.1
5	03.06.2016	IV S	10	1	19.72	250	2.42
6	04.06.2016	IV E	9	1	22.22	250	3.59
7	07.06.2016	IV E	7	1	19.04	250	0.99
8	09.06.2016	III SE	11	1	17.17	200	5.09
9	10.06.2016	III SM	11	1	20.45	200	4.14
10	13.06.2016	IV SE	14	2	14.28	250	2.94
11	17.06.2016	II SW	8	1	32.64	250	6.14
12	17/07/2016	II NE	7	1	35.71	300	5.63
13	29/08/2016	II NE	8	1	12.15	250	4.55
14	01/09/2016	IINE	6	2	16.67	250	2.07
15	2/09/2016	IINM	7	1	19.05	200	5.77
16	3/09/2016	IIN	6	1	12.04	200	3.58
17	10/09/2016	IIN	6	2	12.96	200	4.9
18	11/09/2016	IINM	6	1	13.43	200	3.57
19	18/09/2016	IIN	8	1	12.15	200	3.36
20	20/09/2016	IINM	6	1	13.43	200	5.64

21	24/09/2016	IINM	11	1	23.99	200	4.44
22	29/09/2016	IIN	6	1	14.35	200	4.83
23	30/09/2016	IINM	8	1	9.38	200	2.22

J.K. Cement LIMESTONE MINE (MURLIA BLOCK)
Peak particle velocity report for the period of April'16 to Sept'16

Serial Number	Date of Blast	Location	No. Of Holes	No. Of Rows	Charge per delay in Kg.	instrument from Blast	PPV mm/sec.
1	2	3	4	5	7	8	9
1	08.04.16	IInd S-pit	12	2	26.39	250	1.9
2	09.04.16	Ist s-pit	9	1	27.77	200	3.4
3	08.05.16	III rd S-pit	12	2	26.39	175	1.9
4	17.05.16	Ist s-pit	10	1	31.39	150	4.32
5	28.05.16	IInd S-pit	16	2	27.77	175	2.99
6	29.05.16	Ist s-pit	22	2	32.82	150	4.77
7	02.06.16	IInd S-pit	17	1	33.49	150	4.02
8	03.06.16	Ist s-pit	9	1	29.01	175	3.47
9	16.06.16	IInd S-pit	13	2	29.06	175	2.36
10	25.06.16	Ist s-pit	18	1	32.4	150	3.34
11	28.06.16	IInd S-pit	12	2	27.08	200	3.69
12	01.07.16	III rd S-pit	9	1	28.39	250	2.62
13	03.07.16	IInd S-pit	12	2	27.08	200	2.47
14	15.07.16	Ist s-pit	8	1	32.98	150	4.68
15	21.07.16	IInd S-pit	14	2	23.61	150	3.61
16	15.08.16	Ist s-pit	6	1	25	200	2.89
17	16.08.16	Ist s-pit	8	1	33.33	250	2.13
18	22.08.16	Ist s-pit	6	1	29.16	250	4.08
19	23.08.16	Ist s-pit	5	1	33.33	250	4.07
20	01.09.16	Ist s-pit	8	1	32.98	250	3.07
21	02.09.16	Ist s-pit	12	2	31.25	250	3.94
22	06.09.16	III rd S-pit	10	1	31.78	250	3.45
23	11.09.16	Ist s-pit	9	1	32.1	250	3.57