

J.K. Cement WORKS, MANGROL (RAJ)

AMBIENT AIR QUALITY DATA

TILAKHERA MINE(Core Zone)

(TA1) Location :- Near Mine Office

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	322.0	42.0	10.8	22.0	687.0	
2	May '16	343.0	43.6	11.2	23.7	973.3	
3	June'16	330.0	40.0	12.6	24.8	744.3	
4	July'16	290.0	36.0	9.6	19.0	629.8	
5	August'16	164.0	29.2	6.2	15.5	343.5	
6	September'16	256.0	34.0	8.6	17.7	515.3	

(TA2) Location :- Near Ravana Office

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	365.0	48.0	14.7	24.0	458.0	
2	May '16	377.0	47.4	15.2	28.3	916.0	
3	June'16	354.0	46.0	16.3	27.2	973.3	
4	July'16	320.0	40.0	13.5	21.0	572.5	
5	August'16	206.0	32.8	8.4	20.6	229.0	
6	September'16	310.0	39.0	10.7	23.7	400.8	

(TA3) Location :- 3 to 10 Meter Distance From Drilling Operation

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	398.0	50.0	15.0	27.0	801.5	
2	May '16	409.0	51.9	18.3	32.4	744.3	
3	June'16	391.0	49.0	19.7	36.0	629.8	
4	July'16	320.0	46.0	14.7	25.0	687.0	
5	August'16	230.0	42.0	10.2	27.0	400.8	
6	September'16	366.0	44.0	13.6	28.4	629.8	

(TA8) Location :- Near Loading Point.

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	352.0	45.0	12.5	20.0	572.5	
2	May '16	368.0	46.7	17.5	30.3	573	
3	June'16	341.0	44.2	14.8	26.3	744.3	
4	July'16	310.0	42.0	11.0	22.0	515.3	

5	August'16	191.0	36.7	9.1	17.8	515	
6	September'16	289.0	40.0	12.4	21.7	458.0	

Note : ALL VALUES IN MICROGRAMS / CUBIC METER (µg/M3)

J.K. Cement WORKS, MANGROL (RAJ)

AMBIENT AIR QUALITY DATA

TILAKHERA MINE(Buffer Zone)

(TA4) 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	

(TA5) Location :- Near Stacker Transfer point of JKCW Nimbahera

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	372.0	48.2	14.1	25.7	772.9	
2	May '16	393.8	51.2	16.6	32.2	715.6	
3	June'16	340.0	45.8	14.4	26.6	758.6	
4	July'16	347.0	47.3	15.4	27.7	672.7	
5	August'16	229.3	35.5	8.8	16.6	300.6	
6	September'16	340.7	45.9	14.1	28.4	601.1	

(TA6) Location :- Near Ravana Office of Karunda Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NOx	CO	Remarks
1	April'16	371.0	50.0	15.7	27.0	687.0	
2	May '16	380.0	52.6	17.8	29.6	858.8	
3	June'16	356.0	47.0	14.4	25.6	973.3	
4	July'16	305.0	38.0	11.9	21.4	515.3	
5	August'16	211.0	26.0	10.1	18.0	343.5	
6	September'16	269.0	35.0	9.8	20.7	458.0	

(TA7) Location :- Near Mine Office of Maliakhara Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	April'16	328.0	45.0	13.7	25.4	801.5	
2	May '16	341.0	39.9	15.1	29.6	973.3	
3	June'16	317.0	41.0	11.7	22.6	629.8	
4	July'16	275.0	34.0	10.2	20.6	629.8	
5	August'16	159.0	26.0	5.9	12.2	400.8	
6	September'16	240.0	31.0	7.8	16.4	629.8	

Note : ALL VALUES IN MICROGRAMS / CUBIC METER (µg/M³)

Month: Sept 2016

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Month: June-2016

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Mangrol Tilakhera Limestone Mine

Ground Vibration Details

Month: May-2016

Sr. No.	Date	Location Of Blasting		Vibration Measured From Blasting Face (Distance in Mtr.)	No. of Holes	Total Charge (Kg)	Charge Per Hole (Kg)	Charge Per Delay (Kg)	Peak Vector Sum (mm/sec)	Accessories used in Blasting
		Pit	Bench & BID							
1	01/05/16	N-pit	D ^W 2-9	400 mtr. (20)	19	772.22	40.64	40.64	1.78	DTH & TLD
2	3/5/16	N-pit	T ^N 0-3	350 mtr. (B)	18	638.90	35.49	35.49	1.38	DTH & TLD
3	8/5/16	S-pit	D ^N 14-5	350 mtr. (B)	16	255.56	15.97	15.97	2.23	DTH & TLD
4	9/5/16	S-pit	T ^S 17-3	400 mtr. (B)	10	327.78	32.77	16.38	1.43	Double DTH & TLD
5	13/5/16	N-pit	D ^N 2-12	400 mtr. (B)	14	475	33.92	33.92	0.714	DTH & TLD
6	15/5/16	N-pit	T ^N 0-4	350 mtr. (B)	18	650	36.11	18.05	2.14	Double DTH & TLD
7	16/5/16	S-pit	T ^N 15-4	300 mtr. (opp)	15	480.56	32.03	32.03	1.22	DTH & TLD
8	17/5/16	S-pit	T ^N 15-5	300 mtr. (opp)	20	702.78	35.13	35.15	1.65	DTH & TLD
9	19/5/16	S-pit	T ^N 14-8	400 mtr. (B)	16	572.24	35.76	35.76	1.68	DTH & TLD
10	20/5/16	S-pit	T ^S 17-4	350 mtr. (B)	8	285.56	31.94	15.97	1.21	Double DTH & TLD
11	22/5/16	N-pit	T ^N 0-6	350 mtr. (B)	9	325	36.11	18.05	1.13	Double DTH & TLD
12	26/5/16	S-pit	T ^N 14-11	300 mtr. (opp)	17	641.65	37.74	37.74	1.35	DTH & TLD
13	27/5/16	N-pit	T ^N 5-4	350 mtr. (B)	20	427.78	21.38	21.38	2.03	DTH & TLD
14	28/5/16	S-pit	D ^N 15-7	350 mtr. (B)	15	255.56	17.03	17.03	2.44	DTH & TLD
15	30/5/16	N-pit	D ^N 2-16	325 mtr. (B)	14	369.46	26.39	26.39	3.12	DTH & TLD
16	31/5/16	S-pit	D ^N 15-9	275 mtr. (B)	15	363.88	24.25	24.25	3.81	DTH & TLD

Incharge (Blasting)

Mines Manager

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Mangrol Tilakhera Limestone Mine

Ground Vibration Details

Month: April-2016

Sr. No.	Date	Location Of Blasting		Vibration Measured From Blasting Face (Distance in Mtr.)	No. of Holes	Total Charge (Kg)	Charge Per Hole (Kg)	Charge Per Delay (Kg)	Peak Vector Sum (mm/sec)	Accessories used in Blasting
		Pit	Bench & BID							
1	01/04/16	N-pit	T ^N 6-1	350 mtr.	16	572.24	35.76	35.76	3.27	DTH & TLD
2	02/04/16	N-pit	T ^N 0-1	400 mtr.	16	572.24	35.76	35.76	1.49	DTH & TLD
3	07/04/16	S-pit	D ^N 15-1	500 mtr. (opp)	16	561.12	35.07	35.07	0.873	DTH & TLD
4	07/04/16	S-pit	T ^N 16-1	400 mtr.	16	511.12	31.94	31.94	1.48	DTH & TLD
5	08/04/16	N-pit	D ^N 2-4	300 mtr.	12	288.88	24.07	24.07	3.91	DTH & TLD
6	9/4/16	N-pit	T ^N 1-1	400 mtr.	13	441.66	33.97	33.97	1.10	DTH & TLD
7	9/4/16	N-pit	D ^N 1-2	400 mtr. (20)	22	933.34	42.42	42.42	1.17	DTH & TLD
8	12/4/16	S-pit	T ^S 17-1	400 mtr. (B)	13	450	34.61	34.61	1.65	DTH & TLD
9	16/4/16	S-pit	T ^S 17-2	300 mtr. (A)	8	255.56	31.94	31.94	3.11	DTH & TLD
10	18/4/16	N-pit	T ^N 4-1	400 mtr. (20)	22	802.78	36.49	36.49	1.46	DTH & TLD
11	19/4/16	N-pit	T ^N 0-2	350 mtr. (B)	16	572.24	35.76	35.76	2.43	DTH & TLD
12	21/4/16	N-pit	T ^N 1-5	350 mtr. (B)	21	761.12	36.24	36.24	2.51	DTH & TLD
13	22/4/16	N-pit	D ^N 2-6	350 mtr. (B)	12	383.34	31.94	31.94	2.48	DTH & TLD
14	23/4/16	N-pit	T ^N 6-3	400 mtr. (20)	16	572.22	35.76	35.76	1.93	DTH & TLD
15	24/4/16	N-pit	T ^N 2-7	350 mtr. (B)	11	375	34.09	34.09	2.05	DTH & TLD

Incharge (Blasting)

Mines Manager

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Month: July-2016

Month: July-2016

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Incharge (Blasting)

Mines Manager