

J.K. Cement WORKS, MANGROL (RAJ)

ENVIRONMENTAL QUALITY DATA

MANGROL LIME STONE MINE (Core zone)

(MG1) Location :- Near Towards Factory Gate

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	337.0	43.4	13.6	26.0	400.8	
2	November'17	341.0	46.2	17.4	30.1	515.3	
3	December'17	320.0	41.6	11.8	22.3	400.8	
4	January'18	317.0	38.5	9.7	20.5	286.3	
5	February'18	332.0	42.7	12.5	24.4	400.8	
6	March'18	325.0	44.6	14.4	27.7	458.0	

(MG2) Location :- Ravana Office

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	387.0	50.4	19.7	36.6	629.8	
2	November'17	398.0	52.6	20.7	35.4	744.3	
3	December'17	376.0	47.4	16.4	31.4	515.3	
4	January'18	362.0	44.5	14.7	27.6	400.8	
5	February'18	381.0	51.6	16.7	30.4	629.8	
6	March'18	378.0	48.5	18.5	32.6	858.8	

(MG3) Location :- 3 to 10 Meter Distance From Drilling Operation

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	434.0	56.7	24.4	40.2	973.3	
2	November'17	417.0	57.4	22.6	38.7	916.0	
3	December'17	401.0	51.2	19.6	36.4	744.3	
4	January'18	422.0	53.7	21.3	39.2	629.8	
5	February'18	430.0	55.4	23.2	37.8	744.3	
6	March'18	410.0	56.0	22.0	35.2	973.3	

(MG8) Location :- Near Loading Point

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	370.0	47.8	17.6	31.6	801.5	
2	November'17	362.0	48.7	15.4	27.4	858.8	
3	December'17	354.0	45.6	13.6	28.9	629.8	
4	January'18	341.01	42.4	11.8	23.4	343.5	
5	February'18	365.0	49.2	14.4	26.3	572.5	
6	March'18	359.0	46.3	16.8	30.6	744.3	

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

J.K. Cement WORKS, MANGROL (RAJ)

ENVIRONMENTAL QUALITY DATA

MANGROL LIME STONE MINE (Buffer Zone)

(MG4) Location :- Near Mine Office of Tilakhera Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	329.0	41.8	11.7	21.4	400.8	
2	November'17	335.0	43.6	13.8	25.1	286.3	
3	December'17	347.0	39.6	13.6	27.4	629.8	
4	January'18	327.0	42.7	11.2	22.7	458.0	
5	February'18	343.0	44.6	14.7	26.5	515.3	
6	March'18	322.0	40.5	10.8	23.2	400.8	

(MG5) Location :- Near Stacker Transfer point of JKCW Nimbahera

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	382.2	50.6	19.9	33.2	758.6	
2	November'17	322.0	42.5	12.9	21.8	386.4	
3	December'17	320.3	42.1	12.8	29.2	434.1	
4	January'18	335	42.2	13.2	24.3	500.9	
5	February'18	331.0	43.8	13.5	27.8	415.1	
6	March'18	337.8	43.3	12.8	25.1	415.1	

(MG6) Location :- Near Ravana Office of Karunda Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	371.0	47.4	17.7	34.8	744.3	
2	November'17	356.0	45.6	13.4	26.8	515.3	
3	December'17	384.0	48.7	18.5	33.6	744.3	
4	January'18	379.0	46.2	16.4	31.4	629.8	
5	February'18	365.0	44.2	14.5	27.5	515.3	
6	March'18	374.0	49.6	19.4	32.4	744.3	

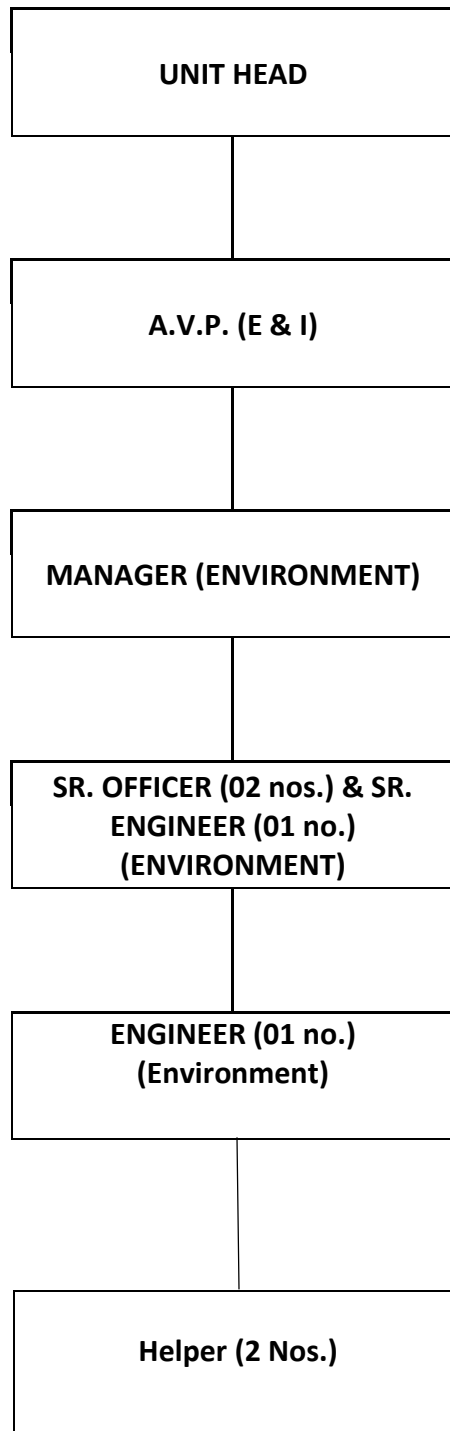
(MG7) Location :- Near Mine Office of Maliakhera Mine

S.No.	MONTH	SPM	RSPM	SO ₂	NO _x	CO	Remarks
1	October'17	337.0	40.5	12.4	22.8	515.3	
2	November'17	341.0	42.2	14.7	26.3	343.5	
3	December'17	324.0	43.4	11.6	24.3	400.8	
4	January'18	315.0	39.8	10.7	23.6	458	
5	February'18	320.0	41.7	9.8	21.4	343.5	
6	March'18	332.0	44.5	13.6	25.2	515.3	

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

J.K. Cement WORKS, NIMBAHERA & MANGROL (RAJ)

ORGANISATION CHART OF POLLUTION CONTROL DEPARTMENT



J.K. Cement WORKS, MANGROL (RAJ)
MANGROL MINE

Financial Budget for Environmental Management
FY 2018-19

S. No.	Activity	Recurring Cost per Annum (Rs. in Lacs)
		Proposed
1.	Pollution control expenses (Others)	3.664
2.	Pollution control expenses (Statutory)	8.42
3.	Gardening Expenses	2.50
4.	CSR Expenses	37.0
Total (Rs. in Lacs)		51.584

J.K. *Cement* WORKS, MANGROL (RAJ)
MANGROL MINE

EXPENDITURE INCURRED ON ENVIRONMENTAL PROTECTION
MEASURES DURING YEAR 2017-2018

S. No.	Activity	Recurring Cost per Annum (Rs.)
1.	Pollution control expenses (Others)	73760
2.	Pollution control expenses (Statutory)	471
3.	Gardening Expenses	216363
4.	CSR Expenses	2911382
Total (Rs.)		11154701/-

Ground Vibration Details at Mangrol Mines

Period: October-2017 to March-2018

Sl. No.	Date	Location of Blasting	Approx. Dist. Of Instrument (Minimate) from Blast	No. of Holes	Charge Per Delay Kgs.	Peak Vector Sum Mm/Sec	Accessories used in Blasting
1	17.11.2017	Ist SE (B.id-6-37)	300 Mtr. In the line of initiation	14	40.08	2.34	Nonels DTH & TLD
2	24.11.2017	IInd old ramp (B.id 4-74)	300 Mtr Back side	16	35.93	2.48	Nonels DTH & TLD
3	16.12.2017	IInd Trench (B.id-3-5)	300 Mtr Back side	16	35.93	2.5	Nonels DTH & TLD
4	24.12.2017	IInd Trench (B.id-5-77)	300 Mtr Back side	11	39.39	1.28	Nonels DTH & TLD
5	19.01.2018	IInd South (B.id-5-88)	300 Mtr Back side	14	36.31	1.89	Nonels DTH & TLD
6	21.01.2018	Ist South (B.id-5-90)	300 Mtr Back side	12	36.8	1.71	Nonels DTH & TLD
7	28.01.2018	IInd SE (B.id-7-12)	300 Mtr Back side	12	37.5	1.3	Nonels DTH & TLD
8	02.02.2018	IInd S (B.id-7-14)	300 Mtr Back side	12	36.8	1.16	Nonels DTH & TLD
9	10.02.2018	Ist S (B.id-7-16)	300 Mtr Back side	20	36.38	3.59	Nonels DTH & TLD
10	12.02.2018	IInd E (B.id-5-99)	300 Mtr in the line of initiation	21	35.84	1.33	Nonels DTH & TLD
11	5.03.2018	IInd S (B.id-5-109)	300 Mtr Back side	20	36.6	2.79	Nonels DTH & TLD
12	06.03.2018	IInd S (B.id-7-19)	300 Mtr in the line of initiation	12	35.52	1.85	Nonels DTH & TLD
13	08.03.2018	IInd E (B.id-4-82)	300 Mtr in the line of initiation	17	36.82	2.09	Nonels DTH & TLD
14	09.03.2018	IInd W (B.id-5-110)	300 Mtr in the line of initiation	16	35.52	3.85	Nonels DTH & TLD
15	10.03.2018	IInd S (B.id-5-111)	350 Mtr Back side	20	36.77	3.07	Nonels DTH & TLD



J.K.Cement Works, Mangrol

MANGROL LIMESTONE MINE

Vehicular Exhaust Emission Measurement

Raj Om Enterprises, Nimbahera

Date 18/05/2018

Sr. No.	Type of Machine	Machine No.	PUC Limit	No. of Readings	Average PUC Limit as per test report	Date of Testing	Remark
1	Tipper	RJ-09GA-9986	< 65 %	7	38.80%	25/12/2017	
2	Tipper	RJ-09GA-9987	< 65 %	7	38.80%	25/12/2017	
3	Tipper	RJ-09GA-9988	< 65 %	4	45.50%	25/12/2017	
4	Tipper	RJ-09GA-9989	< 65 %	5	40.20%	25/12/2017	
5	Tipper	RJ-09GB-0031	< 65 %	6	45.10%	25/12/2017	
6	Tipper	RJ-09GB-0032	< 65 %	4	45.50%	25/12/2017	
7	Tipper	RJ-09GB-0033	< 65 %	6	46.70%	25/12/2017	
8	Tipper	RJ-09GB-0034	< 65 %	7	38.80%	25/12/2017	
9	Tipper	RJ-09GB-0035	< 65 %	4	45.50%	25/12/2017	
10	Tipper	RJ-09GB-0036	< 65 %	4	45.90%	25/12/2017	
11	Tipper	RJ-09GB-1982	< 65 %	4	35.90%	25/12/2017	
12	Tipper	RJ-09GB-1726	< 65 %	4	32.30%	25/12/2017	


R.C.Vyas
Manager (Mines)