

**LIMESTONE MINES: -Narmada Cement Mine-Babarkot**

**KEY ENVIRONMENTAL PARAMETERS FOR 3rd QUARTER**

**OCT-DEC 11**

<b>1</b>	<b>STATIC INFORMATION (Physical Data)</b>		
1.1	M.L.No.	MCR-1583-(N-1)-1942/CHH	
1.2	Area (Ha)	565.94	EC-J-11015/205/2005/IA.II(M) dated 21.09.2005
1.3	Lease Duration	20 years	Mine Code : 38GUJ02004
1.4	Date Of Commencing (Execution)	02.01.1979	
1.5	Production (Capacity)	23 Lac T / A	
<b>2</b>	<b>DYNAMIC PARAMETER</b>		

**2.1 Ambient Air Quality**

**Fugitive AIR QUALITY MONITORING RESULTS (Microgram/M<sup>3</sup>)**

**CORE ZONE**

Parameters	Permissible Limit	Location (Fortnightly Monitoring)							
		Site I		Site II		Site III		Site IV	
		Max	Min	Max	Min	Max	Min	Max	Min
<b>PM 2.5</b>	60	15.0	12.0	16.0	10.0	17.0	12.0	21.0	15.0
<b>PM-10</b>	100	48.0	22.0	36.0	24.0	42.0	24.0	39.0	31.0
<b>SO<sub>2</sub></b>	80	12.8	10.2	12.4	8.9	11.8	9.6	13.2	10.2
<b>NO<sub>x</sub></b>	80	20.3	16.2	18.4	16.6	19.7	16.8	20.4	15.9

**BUFFER ZONE**

Parameters	Permissible Limit	Location (Fortnightly Monitoring)							
		Site I		Site II		Site III		Site IV	
		Max	Min	Max	Min	Max	Min	Max	Min
<b>PM 2.5</b>	60	35.0	9.0	39.0	14.0	26.0	12.0	19.0	10.0
<b>PM-10</b>	100	63.0	20.0	70.0	14.0	55.0	25.0	33.0	29.0
<b>SO<sub>2</sub></b>	80	27.0	11.4	21.2	10.7	26.0	11.1	13.5	10.7
<b>NO<sub>x</sub></b>	80	35.0	14.8	19.6	15.3	32.0	18.6	17.6	14.6

**2.2 Vibration due to Blasting**  
Peak Particle velocity at 300 M (Average)

Trans	Vert	Long
0.148	0.424	0.127

**2.3 Quality of Discharge Water**

TDS,DO,PH,total suspended solids(TSS)                      NO DISCHARGE

<b>2.4</b>	<b>Greenbelt / Plantation</b>							
	2011	2010*	2009.0	2008.0	2007.0	2006.0	2005.0	Cumulative
<b>No. of Trees Planted</b>	10470	10548	7166	4155	7011	2942	4841	47133
<b>Area (Hect.) under Plantation</b>	2.35	0.57	2.11	2.00	1.89	1.65	0.97	11.54

Survival %                      65-70 %                      \* Nearly 7000 species were plants as replacement.