

Ambuja Cement

Monitored Key Parameters in Respect of Mining Projects

Ref. MOEF Circular No. J-20012/1/2006-IA.II(M) Dated 27/05/2009

For the Period: 01/05/10 to 15/05/10

Total Mines: IX

MINE I

I. Static Information				
(i)	Name of the Mine	Ras II Limestone Mines		
(ii)	Area of Mine(Ha)	803		
(iii)	Minerals being produced	Limestone		
(iv)	Annual Capacity(MTPA)	3.6 MTPA		
(v)	Date of mine opening	12/31/1995		
(vi)	Lease validity	20 Years		
II. Dynamic Parameter				
(i)	Ambient Air Quality in ug/M³	At L/S Crushing &Screening CCR	Vill. Patan	Vill. Kerpura
	(Three Locations-1 in core & 2 in buffer zone with date of sampling)	5/5/2010	5/12/2010	5/12/2010
	Location :(Core Zone / Buffer Zone)	Core Zone	Buffer Zone	Buffer Zone
	SPM	274.5	162	178.8
	RSPM	38.6	26.5	27.3
	NOx	11.6	9.2	9.5
(ii)	Vibration Report			

	(1 or 2 locations)	Location with distance from blast site and habitation	Date & PPV(mm/s)		
	Location : 1	Eastern Ridge, Distance 200 mtr., Village distance 500 mtr. From Mines Boundary	11/05/10 & 0.785		
	Location : 2	Western Ridge, Distance 150 mtr.,Cement plant distance 1.5 KM & No village within 3 km. From mines boundary	10/05/10 & 4.97		
(iii)	Quality of Discharge Water				
		Mines Work Shop Outlet (08/05/10)			
	pH	7.4			
	TSS(mg/l)	78			
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	5	13700	8000	2740
	Cumulative	75.45	123474	92189	1636.5

MINE II

I.	Static Information	
	(i)	Name of the Mine Maratha Lime Stone Mines
	(ii)	Area of Mine(Ha) 1509.2
	(iii)	Minerals being produced Lime Stone
	(iv)	Annual Capacity(MTPA) 3244950 (April - 09 to March - 10)
	(v)	Date of mine opening 17.07.2001
	(vi)	Lease validity 03 Lease : 1. 880.31 Ha : 14.12.2020 2. 579.90 Ha : 31.12.2024 3. 49 Ha : 24.05.2036

II.	Dynamic Parameter				
	(i)	Ambient Air Quality in ug/M³	Date of Sampling 1 to 14 th May 2010 (Average Result)		
		(Three Locations-1 in core & 2 in buffer zone with date of sampling)	I	II	III
		Location :(Core Zone / Buffer Zone)			
		SPM	160.5	153.5	155.5
		RSPM	57.0	48.00	52.20
		NOx	15.4	15.8	14.8
	(ii)	Vibration Report			
		(1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)
		Location : 1	Blast site - B North Face Nearest Village is around 02 KMs from the blast site		15 th March,10 & PPV - 4.41 mm/s Minimate dist - 200 Mtr from the blast.
		Location : 2	Blast site - B South Old Nearest Village is around 2.5 KMs from the blast site		12 th March,10 & PPV - 2.38 mm/s Minimate dist - 200 Mtr from the blast.
	(iii)	Quality of Discharge Water			
			Mines Work Shop Outlet (Date of sampling) 13.05.2010	Mining area run-off (Date of sampling)	
		pH	8.6	-	
		TSS (mg/l)	76.0	-	
		TDS (mg/l)	185.0	-	
		DO (mg/l)	3.5	-	
	(iv)				
		Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area

	During the year (2009)	2.0	5000.0	200.0	2500.0
	Cumulative	106.9	266489.0	84059.0	2494.05

MINE III

I.	Static Information				
	(i)	Name of the Mine	Rawan Limestone Mine		
	(ii)	Area of Mine(Ha)	420.95 hectares		
	(iii)	Minerals being produced	Limestone		
	(iv)	Annual Capacity(MTPA)	6.31 Million Tonnes per annum		
	(v)	Date of mine opening	01.04.1984		
	(vi)	Lease validity	25.06.2021		
II.	Dynamic Parameter				
	(i)	Ambient Air Quality in ug/M³			
		(Three Locations-1 in core & 2 in buffer zone with date of sampling)	I	II	III
		Location :(Core Zone / Buffer Zone)	Core Zone	Buffer Zone	Buffer Zone
		SPM	309.44	97.42	91.87
		RSPM	90.99	41.11	39.63
		NOx	18.05	6.44	6.54
	(ii)	Vibration Report			
		(1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)
		Location : 1	NORTH BLOCK(125 MTR)		1/05/2010 & 5.21
		Location : 2	NORTH BLOCK(125 MTR)		12/05/2010 & 2.49
	(iii)	Quality of Discharge Water			
		Mines Work Shop Outlet (01/04/2010)		Mining area run-off (01/04/2010)	
pH		7.53		7.95	

	TSS(mg/l)	29	12		
	TDS(mg/l)	424	170		
	DO(mg/l)	4.1	5.6		
	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	3.38	8457	45125	2500-3000
(iv)	Cumulative	29.14	102190	515858	2500-3000

MINE IV

I.	Static Information				
(i)	Name of the Mine	Vadnagar Limestone Mine (S. No. 44)			
(ii)	Area of Mine(Ha)	108.97			
(iii)	Minerals being produced	Limestone & Marl			
(iv)	Annual Capacity(MTPA)	Limestone-1.5 MTPA & Marl-1.15 MTPA			
(v)	Date of mine opening	14.07.1986			
(vi)	Lease validity	15th April 2005			
		Applied for part area renewal on 05.04.2004.(original lease area was 191.92 ha , i.e. Sy No-44=108.97ha, Sy No-410= 31.28 ha and Sy No-447 = 51.67ha)			
II.	Dynamic Parameter				
(i)	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 3 in buffer zone with date of sampling)	Working Place	D-Block	Devalpara	Ichhavad
		04.05.10	04.05.10	04.05.10	04.05.10
	SPM	160.7	148.5	120.4	64.1
	RSPM	45.9	42.5	41	9.5
	NOx	14.7	12	8.2	5.8
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)	
		Not applicable as Surface Miner is being used for mining.			
(iii)	Quality of Discharge Water				Mining area run-off

Common Central Work
Shop Outlet (Date of

			sampling)			
			23.04.2010		Not Applicable	
		pH	7.62			
		TSS(mg/l)	20			
		TDS(mg/l)	290			
		DO(mg/l)	7.4			
		Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
		During the year	0	1500	500	
(iv)		Cumulative	8.95	7040	76021(In 108.8 ha)	1500

MINE V

I.	Static Information						
(i)	Name of the Mine	Sugala Limestone Mine					
(ii)	Area of Mine(Ha)	417.3584					
(iii)	Minerals being produced	Limestone					
(iv)	Annual Capacity(MTPA)	1.29 MTPA					
(v)	Date of mine opening	02.11.2002					
(vi)	Lease validity	1st Sept 2032					
II.	Dynamic Parameter						
	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 5 in buffer zone with date of sampling)	Working Area	Sugala	Jagetiya	Chhachhar	Nag dala	Kansariya
		08.05.10	08.05.10	08.05.10	08.05.10	08.05.10	08.05.10
	SPM	137.9	154	139.6	146.1	129	150
	RSPM	39.5	36.7	33.1	51.4	37.3	45.9
(i)	NOx	13	12.5	12.4	9	10.3	8.9
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)			

		Not applicable as Surface Miner is being used for mining.			
(iii)	Quality of Discharge Water	Common Central Work Shop Outlet (Date of sampling)		Mining area run-off	
		23.04.2010		Not Applicable	
	pH	7.62			
	TSS(mg/l)	20			
	TDS(mg/l)	290			
	DO(mg/l)	7.4			
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	1.55	1550	0	1000
	Cumulative	8.33	1619 4	3262	2336

MINE VI

I.	Static Information					
	(i)	Name of the Mine	Vadnagar Limestone Mine (S. No. 200/3p)			
	(ii)	Area of Mine(Ha)	85.3108			
	(iii)	Minerals being produced	Limestone			
	(iv)	Annual Capacity(MTPA)	1.5 MTPA			
	(v)	Date of mine opening	05.09.2005			
	(vi)	Lease validity	13th July 2035			
II.	Dynamic Parameter					
	(i)	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 3 in buffer zone with date of sampling)	Working Place	Vadnagar	Dudana	Ichhvad
			01.05.10	01.05.10	01.05.10	01.05.10
		SPM	142.6	131.4	142.2	135.9
RSPM		44.4	41.7	40.4	41.7	

	NOx	15.4	12.1	14.7	15.5
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)	
		Not applicable as Surface Miner is being used for mining.			
(iii)	Quality of Discharge Water	Common Central Work Shop Outlet (Date of sampling)		Mining area run-off	
		23.04.2010		Not Applicable	
	pH	7.62			
	TSS(mg/l)	20			
	TDS(mg/l)	290			
	DO(mg/l)	7.4			
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	0.03	300	0	10000
	Cumulative	2.75	6599	0	2400

MINE VII

I.	Static Information					
	(i)	Name of the Mine	Solaj Limestone Mine			
	(ii)	Area of Mine(Ha)	200.8184			
	(iii)	Minerals being produced	Limestone & Marl			
	(iv)	Annual Capacity(MTPA)	Limestone-1.0 MTPA, Marl-0.4 MTPA			
	(v)	Date of mine opening	05.12.1996			
	(vi)	Lease validity	1st Feb 2026.			
II.	Dynamic Parameter					
	(i)	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 3 in buffer zone with date of sampling)	Working Place	Solaj	Khera	Moradia
			06.05.10	06.05.10	06.05.10	06.05.10

	SPM	159.8	156.3	142.2	136.4
	RSPM	41.5	46.3	38.5	44.8
	NOx	12.4	12	13.8	9.7
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)	
		Not applicable as Surface Miner is being used for mining.			
(iii)	Quality of Discharge Water	Common Central Work Shop Outlet (Date of sampling)		Mining area run-off	
		23.04.2010		Not Applicable	
	pH	7.62			
	TSS(mg/l)	20			
	TDS(mg/l)	290			
	DO(mg/l)	7.4			
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	2.106	2106	0	1000
	Cumulative	10.556	17233	0	1633

MINE VIII

I.	Static Information				
	(i)	Name of the Mine	Pedhavada Limestone Mine		
	(ii)	Area of Mine(Ha)	15.1737		
	(iii)	Minerals being produced	Limestone		
	(iv)	Annual Capacity(MTPA)	0.7 MTPA		
	(v)	Date of mine opening	01.08.2009		
	(vi)	Lease validity	5.1.2018		
II.	Dynamic Parameter				
	(i)	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 3 in buffer zone with date of sampling)	Working Place	Navagam	Anandpur
		12.05.10	12.05.10	12.05.10	12.05.10

	SPM	139.9	138	135	136.4
	RSPM	34	43.8	34	44.8
	NOx	12.6	15.4	10.8	9.7
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)	
		Not applicable as Surface Miner is being used for mining.			
(iii)	Quality of Discharge Water	Common Central Work Shop Outlet (Date of sampling)		Mining area run-off	
		23.04.2010		Not Applicable	
	pH	7.62			
	TSS(mg/l)	20			
	TDS(mg/l)	290			
	DO(mg/l)	7.4			
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)
	During the year	0.5	400	0	800
	Cumulative	0.5	400	0	800

MINE IX

I.	Static Information						
	(i)	Name of the Mine	RKBA Limestone Mine				
	(ii)	Area of Mine(Ha)	310.329				
	(iii)	Minerals being produced	Limestone				
	(iv)	Annual Capacity(MTPA)	1.0 MTPA				
	(v)	Date of mine opening	04.10.2005				
	(vi)	Lease validity	5th Sept 2035.				
II.	Dynamic Parameter						
	(i)	Ambient Air Quality in ug/M ³ (Four Locations-1 in core & 4 in buffer zone with date of sampling)	Working Place	Rampara	Kukras	Anandpara	Bhetali

		10.05.10	10.05.10	10.05.10	10.05.10	10.05.10
	SPM	125.4	154.5	156.4	141.4	133
	RSPM	40.1	36.2	52.1	44.9	39.6
	NOx	14.2	15.5	8.6	10.3	10.9
(ii)	Vibration Report (1 or 2 locations)	Location with distance from blast site and habitation		Date & PPV(mm/s)		
		Not applicable as Surface Miner is being used for mining.				
(iii)	Quality of Discharge Water	Common Central Work Shop Outlet (Date of sampling)		Mining area run-off		
		23.04.2010		Not Applicable		
	pH	7.62				
	TSS(mg/l)	20				
	TDS(mg/l)	290				
DO(mg/l)	7.4					
(iv)	Greenbelt / Plantation	Area Covered (Ha)	No of plants in ML area	No of plants outside ML area	Plantation density (No of plants/ha)	
	During the year	1.18	1557	0	1319	
	Cumulative	4.86	5450	0	1121	