

## REGD. A/D

#### ACL/EMD/F-16/2014/

25.05.2014

**The Director (s),** Ministry of Environment & Forest (MoEF), Regional Office, Western Region, "Kendriya Paryavaran Bhavan" Link Road No.3, Ravi Shankar Nagar, Bhopal – 462016, (M.P.)

Sub.: Six Monthly Compliance Status Report of Environmental Clearance.

Ref.: Environmental Clearance Order No. J-11015/336/2007-IA-II (M) dated 14.01.09

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of October'13 to March'14) of Environmental Clearance Order No. J-11015/336/2007-IA-II(M) granted by MoEF to **Vadnagar** Limestone Mining **Project (S.No.44)** of Ambuja Cements Ltd. , located at village - Vadnagar , Taluka - Kodinar , District – Junagadh (Gujarat ). We are also enclosing here with CD containing soft copy of the same.

In case of further clarification/information require, we shall be please to provide the same.

Thanking you,

Yours faithfully, For Ambuja Cements Ltd.

25514 Dr. Anand K. Rai

HOD (Environment)

Encl. : As above.

Copy to:

- Central Pollution Control Board Western Zonal Office, Synergy House-II, Subhanpura - Gorwa Road, Vadodara-390023 (Gujarat)
- Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 100, 000

#### (Unit : Ambujanagar)

Regd. Office : P.O. Ambujanagar - 362715, Tal : Kodinar, Dist. : Junagadh, Gujarat. Phone : (02795) 221137, 232009, Fax : (02795) 220328, 232032

# MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests Regional Office (W), Bhopal Monitoring Report Part-I

# DATA SHEET

Date: 25.05.2014

01	Project type	: Open Cast (Limestone & Marl) Mining	g
02	Name of the project	: Vadnagar Limestone Mining Project (S.No 44 Lease)	
03	Clearance letter(s) / OM no. and date	: J-11015/336/2007.1A.II (M), Dated 14.01.2009	
04	Location a) District(s)	: : Junagadh	
	b) State(s)	: Gujarat	
	c) Latitude	: 20° 51' 08" - 20° 52' 02"N	
	d) Longitude	: 70° 42' 08" - 70° 42' 56"E	
05	Address for correspondence a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers).	<ul> <li>: Shri. Dinkar Dashora</li> <li>: Agent of Mines</li> <li>: Ambuja Cements Ltd.</li> <li>PO : Ambujanagar , Taluka - Kodinar District : Junagadh (Gujarat)</li> <li>Pin : 362715</li> <li>Tel: -02795-237205</li> <li>Fax: 02795 - 220328/232032</li> </ul>	
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	: Shri, Harendra Dayal Manager (Mines) Ambuja Cements Ltd PO Ambujanagar-362715 Taluka Kodinar, District Junagadh (Gujarat). Tel: 02795-232064 Fax: 02795-232032/232028	

- 06 Salient features
  - a) of the project
  - :
  - b) of the environmental management plans
- : Vadnagar Limestone Mining Lease (Survey No. 44) is located at a distance of about 4 Kms from the Cement Plants at Ambujanagar.
- : Mining operations would not involve drilling & blasting. Limestone excavation is being carried out by Surface Miner supported by ripper dozer.
  - Regular monitoring of Environmental parameters is being undertaken as per the norms of MoEF and IBM.
  - Preventive maintenance of deployed HEMM will be undertaken regularly.
  - Dust suppression by water sprinkling on haul roads and in working area.
  - Afforestation / Green belt development along haul road and lease periphery.
  - Mined-out areas will be converted to pasture land, plantation and converted into water reservoir.
  - Rural Development and Socio-economic activities will be undertaken in the project buffer zone area.
- 07 Break up of the project area.
  - a) Submergence area (forest & non-forest)

: Nil

b) Others : 108.97 ha (Government Waste Land)

1

08 Break up of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only,

09	<ul> <li>both dwelling units &amp; agricultural land &amp; landless labourers / artisan.</li> <li>a) SC, ST / Adivasis</li> <li>b) Others</li> <li>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures if a survey is carried out give details &amp; year of survey)</li> <li>Financial details</li> <li>Project cost as originally planned and subsequent revised estimates and the year of price reference.</li> <li>a) Allocation made for environmental management plans with item wise and year wise break-up.</li> </ul>	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Limestone raised from the mining lease area will partially supplement the requirements of existing cement units. As it is a captive mine for the Cement Plant, no separate project costing was prepared.</li> <li><i>Capital Investment</i></li> <li>Mining Equipment Rs. 15 Lakhs</li> </ul>
	<ul> <li>b) Benefit cost ratio / Internal rate of return and the year of assessment.</li> <li>c) Whether (c) includes the cost of environmental management as shown in the above.</li> <li>d) Actual expenditure incurred on the project so far.</li> <li>e) Actual expenditure incurred on the environmental</li> </ul>	Recurring Expenditure per yearPlantation3.00 LakhsEnvironmental1.00 LakhsMonitoring5.00 LakhsPollution Control5.00 LakhsRural10.0 LakhsDevelopment10.0 LakhsTotal / YearRs.19.00 Lakhs(Recurring)S.19.00 LakhsNo separate assessment made, as it is an integral part of the raw material source for the cement plants at Ambujanagar.: Yes: 4.5 Crore: 2.70 Crore

10	Forest land requirement.	:
	a) The status of approval for diversion of forest land for non-forestry use	The project area does not comprise of any forest land.
	b) The status of clearing felling	: Not applicable.
	c) The status of compensatory afforestation, if any	: Not applicable.
	<ul> <li>d) Comments on the viability &amp; sustainability of compensatory afforestation programme in the light of actual field experience so far.</li> </ul>	: Not applicable.
11	The status of clear felling in non- forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	: The project does not involve felling of trees.
12	Status of construction	
12	<ul><li>Status of construction</li><li>a) Date of commencement (Actual and / or <b>planned</b>)</li></ul>	: Existing project.
12	a) Date of commencement	: Existing project. : Not applicable.
12 13	<ul><li>a) Date of commencement (Actual and / or <b>planned</b>)</li><li>b) Date of completion (Actual</li></ul>	<ul> <li>Not applicable.</li> <li>Project will be start after getting Consent to</li> <li>Operate from State Pollution Control</li> </ul>
	<ul> <li>a) Date of commencement (Actual and / or planned)</li> <li>b) Date of completion (Actual and / or planned).</li> <li>Reasons for the delay if the</li> </ul>	<ul><li>Not applicable.</li><li>Project will be start after getting Consent to</li></ul>
13	<ul> <li>a) Date of commencement (Actual and / or <b>planned</b>)</li> <li>b) Date of completion (Actual and / or <b>planned</b>).</li> <li>Reasons for the delay if the project is yet to start.</li> </ul>	<ul> <li>Not applicable.</li> <li>Project will be start after getting Consent to</li> <li>Operate from State Pollution Control</li> </ul>

- 15 Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits).
- : Half yearly compliance status report is being regularly submitted and last submission was on 23.11.2013 vide letter no.ACL/EMD/F-16/2013.

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	Com	pliance Status of Environment Clearance issued t vide MoEF Letter No : J-11015/336/20	
	Sr. No	Condition	Complinace Status
<u>(A).</u>	i		Fresh Consent to Establish have been obtained from Gujarat Polution Control Board vide letter No. GPCB/ID-29258/CCA/JNG-547/20162 dated
	ii	The project proponent shall not carry out pumping of groundwater.	Point noted and being complied.
	iii	rainwater harvesting measures on long term basis and work out a detailed scheme for rainwater harvesting in consultation with the	
	iv	implement the conditions made by the Chief Wildlife Warden and Principal Chief Conservator of Forests, Gandhinagar vide their letter No.WLP/301/32/A/3097-98/2007- 08 dated 17.03.2008 restraining use of explosives, maintenance of clean environment (air, water and land) and regular	
	v	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	Point noted. At no stage of mining natural water
	vi	Top soil, if any, shall be concurrently used for mine reclamation, plantation and green belt development.	As this is renewed lease. No top soil will be generated during mining operation. If any, shall be used for mines reclamation and plantation & green belt development.
	vii	the monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for the mine pit to prevent run off of water and flow of sediments directly into the rivers and other water bodies and sump	To collect surface run-off and arrest silt and sediment flow from the soil & mineral stacks, drain along with settling pond is constructed along the toe of the stacks, ultimately drain water collected into mined out pit. The drains are properly maintained and collected water utilized for watering the mine area, roads, green belt development etc.

Co	mpliance Status of Environment Clearance issued t vide MoEF Letter No : J-11015/336/20	
Sr. No	Condition	Complinace Status
viii	shall be converted in to water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to	area.Mined out area will be converted in to water body.
ix	Dimension of the retaining wall at the toe of over burden benches within the mine to check run-off and siltation should be based on the rain fall data.	No overburden benches. Hence not applicable
x	etc. and in an area of 3.7 ha. outside the	Till March 2014 3.3031 ha. area is covered under plantation and green belt development. Details of greenbelt/reclamation is enclosed as <b>Annexure -II</b> .
xi	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Suppress dust generated during mining. On all haul roads regular water sprinkling is being done by water tankers. Ambient Air Quality at identified locations is being carried out regularly.
xii		
xiii	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year, pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Bhopal, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted and ingress of saline water is taking place due to the mining activity, necessary corrective measures shall be carried out.	quality is being carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers. Ground water level and water quality monitoring report enclosed as <b>Annexure -III.</b> Preliminary study on ground water in Vadnagar limestone mine (S.No.44) & its buffer zone has been conducted by Ground Water and Mineral Investigation Consultancy Centre (P) Ltd., Jaipur. Copy of report has been already submitted to MoEF vide our submission on 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55924.
xiv	taken to prevent pollution of the Shingoda	Point noted. Shingoda river is located in buffer zone of mines at 2.2 Km from mine lease boundary and Somat river is located at beyond 2.0 Km from mine lease boundry.There will be no any discharge to Shingoda & Somat river.

Со	mpliance Status of Environment Clearance issued t vide MoEF Letter No : J-11015/336/20	
Sr. No	Condition	Complinace Status
xv	used in mining operations and in	Point noted and complied. Vehicle emission is being regularly checked. Regular maintenance of all the vehicle is being done. All vehicles used for transportation of raw
xvi	Drilling and blasting operation shall not be carried out.	Mining is being done using fully mechanized Surface Miner Machine.
xvii	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Crusher is provided with high efficient dust extraction sysytem i.e. Bag Filter. Bag filter is being regularly maintained and operated.
xviii	Consent to operate shall be obtained from the State Pollution Control Board prior to start of enhanced production from the mine .	Fresh Consent to Operate have been obtained from Gujarat Polution Control Board vide letter No.GPCB/CCA/JNG-547/ID-29258/122850 dated 30.08.2012.
xix	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during mining operation.	Sewage treatment plant has already been installed at ambujanagar & under operation. For the waste water generated from workshop, Oil and grease trap has been provided.No waste water generation during mining.
хх		medical examination of the worker engaged is being regularly carried out by team of doctors of our Occupation Health Centre.
xxi	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All the required infrastructures are exist. Hence not applicable.
xxii	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely lion if any, peacock etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the wildlife conservation plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhopal.	All the precautionary measures as per submitted action plan is being under taken. Copy of wildlife conservation plan has been submitted to MoEF vide our submission dated 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55924.

Con	npliance Status of Environment Clearance issued t vide MoEF Letter No : J-11015/336/20	
Sr. No	Condition	Complinace Status
xxiii	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval	Point Noted & will be Complied.
(B) General C		
Ι	No change in technology and scope of working should be made without prior approval of the MoEF	Point noted.
ii	No change in the calendar plan including excavation, quantum of limestone, waste/ OB dumps should be made	
iii	4 Ambient Air Quality monitoring stations should be established in the core zone as well as buffer zone for RSPM,SPM, SO2 & Nox monitoring. Location of the stations should be decided based on meteorological data, topographical features and environmentally and ecologically sensitive target and frequency of monitoring should be undertaken with the SPCB	Four ambient air quality monitoring locations have been identified as directed and is being monitored as per CPCB/SPCB guidelines. Ambient air quality monitoring report enclosed as <b>Annexure - VII.</b>
iv	Data on environmental quality should be regularly submitted to the Ministry including its regional office at Bhopal and SPCB / CPCB once in six months	Point Noted & being complied. Our last submission was on 23.11.2013 vide letter no.ACL/EMD/F-16/2013.
v	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Environment friendly Surface Miner machine is being used for mining. Surface miner has been provided with inbuilt facility of water sprinkling to suppress dust generated during mining. On all haul roads regular water sprinkling is being done by water tankers.
vi	control of noise levels below 85 dBA in the work environment. Workers engaged in	All the worker working in high noise areas is being provided with ear plug/ear muffs. Regular ambient noise monitoring as well as HEMM noise monitoring is being carried out. ambient noise monitoring as well as HEMM noise monitoring report enclosed as <b>Annexure - V &amp; VI.</b>
vii	dated 19.05.1993 & 31.12.1993 or as	Point noted and complied. Oil and grease trap has been installed at workshop for discharge of work shop effluents. Regular monitoring is carried out by M/s Royal Consultants, Rajkot , report is enclosed as
viii	Personnel working in dusty areas should wear protective respirator devices and they should also be provided with adequate training and information and safety & health aspects. Occupational health surveillance program of the workers should be under taken periodically to observe any contraction due to exposure to dust and take corrective measures if needed	Personnel working in mines is being provided with dust masks,safety shoes, safety goggle & Helmet. Occupational health surveillance programme of the workers is undertaken periodically by our Occupational Health Centre

Co	mpliance Status of Environment Clearance issued t vide MoEF Letter No : J-11015/336/20	
Sr. No	Condition	Complinace Status
ix	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior	Environmental Management Division (EMD) has already been set up with suitable qualified
x	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.	environmental protection measures are enclosed
xi	The project authorities should inform to the regional office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work	Point noted
xii		Point noted. Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to
xiv	The project proponent shall submit six monthly report on the status of compliance of stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office, Bhopal, the respective Zonal Office of Central Pollution Control Board, the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically.It shall simultaneously be sent to the regional office of the Ministry of Environment and Forests, Bhopal, the respective Zonal Office of the Central Pollution Control Board and the State Pollution Control Board.	Half yearly compliance status report is being regularly submitted and last submission was on 23.11.2013 vide letter no.ACL/EMD/F-16/2013.
xv	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	A copy of clearance letter has been marked to
xvi	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's Office for 30 days.	
xvii	The project authorities should advertise atleast in two local news papers widely circulated around the project one of which shall be in the vernacular language of the locality concerned within 7 days of issuance of the clearance letter informing that the project has been accorded EC and a copy of the clearance letter is available with the SPCB and may also be seen at the website of MoEF at www.envfor.nic.in	to MoEF on 25.12.2010 vide letter no. ACL/EMD/F16/2010/55924.

		ogramme wise expe		yeai 2013-14			(Rs. In lakhs)
Sr.No	Programme	Funds from ACF Resources	*Funds received through Government	from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						-
1	Water Resource Mangement & Drinking Water Projects						-
	a.Water Resource Devlopment	40.16	17.57				57.73
	B .Drinking Water Programme	37.83	-	13.55	46.29	-	97.67
	c. Salinity Prevention (KVY III)	81.61		52.60	90.93	90.01	315.15
2	Agriculture Development( Farm Forestry & Afforesation)	38.36		16.88	145.03	186.33	386.60
3	Better Cotton Initiative (BCI)	0.54		38.21	1.85	2.30	42.90
4	Krishi Vigyan Kendra (KVK)	16.84	105.59		-		122.43
5	Animal Husbandry Programme	0.44	-		-		0.44
6	Health & Sanitation Programme	12.78			15.31	-	28.09
7	Skill and Enterprunership Development Programme	26.79		15.97	23.78		66.54
8	Village Knowledge Centre & Anganwadi exp	1.93			-		1.93
9	Capacity Building & Training Programmes	0.21	-		-		0.21
10	Women / Youth Development	6.82					6.82
11	Integrated Community Development Programme	80.89					80.89
12	Co-ordination & Administration Expenses	63.65					63.65
13	Capital Expenditure	2.08					2.08
	TOTAL	410.93	123.16	137.21	323.19	278.64	1,273.13

#### Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year 2013-14

# ANNEXURE 2

Vadnagar MINES Greenbelt & Plantation Details till March 2014								
Total Lease Area (in ha)	Opened up Area (in Ha)	Planted Area (in Ha)	Pasture land (in Ha)	Water Body (in Ha)				
108.97	88.2296	3.3031	10.7049	0				

# Ground Water Quality Report of Gujarat Ambuja Limestone Mines-S.NO. 44

# August'2013

S.N.	Ref.No.	IS 10500:2012 (S.R)						
		Desirable	Desirable Permissible		Well Water			
	Source			W8	W10	W13		
	Village			VADNAGAR	VADNAGAR	VADNAGAR		
	Taluka			KODINAR	KODINAR	KODINAR		
	District			JUNAGADH	JUNAGADH	JUNAGADH		
1	Color Hazen Units	5	15	C.L.	C.L.	C.L.		
2	Odour	Agreeable	Agreeable	U.O.	U.O.	U.O.		
	Turbidity NTU	1	5	00	00	00		
4	Dissolved Solids mg/l	500	2000	620	844	896		
5	рН	6.5 to 8.5	6.5 to 8.5	8.34	8.38	8.33		
6	Total Hardness (as CaCO3) mg/l	200	600	280	400	420		
7	Calcium (as Ca) mg/l	75	200	54	80	67		
	Magnessium (as Mg) mg/l	30	100	55	49	61		
9	Chlorides (as Cl) mg/l	250	1000	160	208	224		
	Sulphates (as SO4) mg/l	200	400	56	80	84		
11	Nitrates (as NO3) mg/l	45	45	20.64	28.51	32.46		
12	Fluorides (as F) mg/l	1	1.5	1.2	0.99			
13	Alkalinity (as CaCO3) mg/l	200	600					
»	Water level in mtr. from ground level							

#### Ground Water Quality Report of Gujarat Ambuja Limestone Mines-S.NO. 44 January'-2014

C NI	Ref.No.	18 40500	-2012 (C D)					
5.N.	Ref.NO.	IS 10500:2012 (S.R)		-				
		Desirable	Permissible		Well Water			
	Source			W8	W10	W13		
	Village			VADNAGAR	VADNAGAR	VADNAGAR		
	Taluka			KODINAR	KODINAR	KODINAR		
	District			JUNAGADH	JUNAGADH	JUNAGADH		
1	Color Hazen Units	5	15	C.L.	C.L.	C.L.		
2	Odour	Agreeable	Agreeable	U.O.	U.O.	U.O.		
3	Turbidity NTU	1	5	00	0.0	0.0		
4	Dissolved Solids mg/l	500	2000	692	796	870		
5	рН	6.5 to 8.5	6.5 to 8.5	8.4	8.39	8.32		
6	Total Hardness (as CaCO3) mg/l	200	600	296	404	340		
7	Calcium (as Ca) mg/l	75	200	64	83	70		
8	Magnessium (as Mg) mg/l	30	100	33	47	39		
9	Chlorides (as Cl) mg/l	250	1000	172	180	244		
10	Sulphates (as SO4) mg/l	200	400	52	69	58		
11	Nitrates (as NO3) mg/l	45	45	34.43	37.77	25.94		
	Fluorides (as F) mg/l	1	1.5	0.64	0.86	1.3		
13	Alkalinity (as CaCO3) mg/l	200	600	336	320	400		
»	Water level in mtr. from ground level							

# Annexure 4 Air Borne Dust Survey - Vadnagar Mines (S.No.44) Oct-2013 March-2014

	Machine : S	Surface Mi	ner		Machine : L	Dozer		Machine : Loader				
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	
24-Oct-13	0600 - 1400	_	0.21	25-Oct-13	0600 - 1400	_	0.24	26-Oct-13	0600 - 1400	_	0.29	
28-Nov-13	0600 - 1400	bir	0.25	29-Nov-13	0600 - 1400	bir	0.29	30-Nov-13	0600 - 1400	bir	0.22	
5-Dec-13	0600 - 1400	Ca	0.31	6-Dec-13	0600 - 1400	Ca	0.26	7-Dec-13	0600 - 1400	Ca	0.24	
8-Jan-14	0600 - 1400	ide	0.24	9-Jan-14	0600 - 1400	ide	0.29	10-Jan-14	0600 - 1400	ide	0.23	
20-Feb-14	0600 - 1400	nsi	0.25	21-Feb-14	0600 - 1400	nsi	0.28	22-Feb-14	0600 - 1400	nsi	0.24	
3-Mar-14	0600 - 1400		0.26	4-Mar-14	0600 - 1400		0.29	5-Mar-14	0600 - 1400		0.27	

	Noise Levels in dB(A)													
Month		ear e Miner	Hoad	road	mines	offices	develpar	a village	Icchhved Village					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max				
Oct-13	75	78	39	42	38	44	40	43	46	49				
Nov-13	76	79	40	50	39	43	45	50	43	46				
Dec-13	73	78	42	46	35	39	40	42	39	42				
Jan-14	76	79	43	46	40	45	47	50	40	43				
Feb-14	72	75	40	45	42	46	40	44	39	42				
Mar-14	76	79	39	44	35	38	39	42	36	40				

Ambient Noise Level Monitoring - Vadnagar Mines (S.No.44) Oct-13 March-2014

Machine		Surface	Miner				Dozer								
Month	Conditions		Noise Le	evels (dB)		Conditions	Noise Levels (dB)				Conditions	Noise Levels (dB)			
wonth Conditions	Conditions	At 5m. distance At 10m. distance			distance	Conditions	At 5m. distance		At 10m. distance		Conditions	At 5m. distance		At 10m.	distance
		Min	Max	Min	Max		Min	Max	Min	Max		Min	Max	Min	Max
Oct-13	While mining	67	71	38	43	While loading to tipper	55	60	40	43	While dozing the material	42	46	44	48
Nov-13	While mining	69	72	40	45	While loading to tipper	55	56	44	49	While dozing the material	43	47	43	46
Dec-13	While mining	50	55	50	60	While loading to tipper	65	69	40	44	While dozing the material	43	48	57	60
Jan-14	While mining	40	46	39	41	While loading to tipper	49	52	50	53	While dozing the material	55	59	45	50
Feb-14	While mining	42	44	39	42	While loading to tipper	40	53	38	43	While dozing the material	50	54	41	46
Mar-14	While mining	40	43	38	40	While loading to tipper	50	53	35	38	While dozing the material	50	56	40	43

#### Noise Level of HEMM - Vadnagar Mines (S.No.44) Oct-2013- March-2014

#### Ambient Air Quality Monitoring Results ( Oct 2013 - March 2014 )

		Average Ambient Air Quality Monitoring Results																		
Month		D-Block Crusher				Devalpara Village					Inchhavad Village									
	PM2.5	PM10	SO2	NOx	со	PM2.5	PM10	SO2	NOx	со	PM2.5	PM10	SO2	NOx	со	PM2.5	PM10	SO2	NOx	со
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Oct. 2013	24.00	43.00	13.60	16.50	0.40	25.00	44.00	12.10	17.70	0.30	22.00	37.00	13.20	18.50	0.30	22.00	40.00	11.40	15.70	0.40
	25.00	45.00	11.60	16.70	0.50	27.00	41.00	10.80	18.50	0.40	24.00	43.00	12.40	17.30	0.50	22.00	46.00	11.90	16.50	0.30
Nov.2013	28.00	43.00	12.30	17.80	0.40	29.00	46.00	11.80	16.20	0.30	27.00	47.00	10.60	18.60	0.40	22.00	46.00	11.90	16.50	0.30
	26.00	40.00	12.30	15.60	0.50	27.00	41.00	11.50	16.20	0.40	23.00	39.00	12.60	16.80	0.40	25.00	42.00	12.90	16.80	0.50
Dec.2013	23.00	42.00	11.20	16.60	0.30	25.00	44.00	12.30	17.50	0.50	25.00	41.00	11.70	17.20	0.50	26.00	39.00	12.50	17.30	0.40
	26.00	48.00	11.40	16.60	0.50	25.00	43.00	12.50	17.70	0.40	29.00	42.00	12.20	17.20	0.50	24.00	49.00	12.60	17.90	0.40
Jan. 2014	26.00	45.00	12.20	16.90	0.50	28.00	48.00	12.80	17.30	0.30	29.00	43.00	11.30	17.60	0.40	26.00	39.00	12.50	17.30	0.40
	24.00	45.00	12.20	17.10	0.30	28.00	41.00	12.90	16.80	0.50	31.00	44.00	13.40	17.70	0.30	27.00	46.00	13.80	18.30	0.30
Feb. 2014	26.00	45.00	12.20	16.90	0.50	28.00	48.00	12.80	17.30	0.30	29.00	43.00	11.30	17.60	0.40	26.00	39.00	12.50	17.30	0.40
	28.00	41.00	11.40	16.60	0.50	29.00	43.00	12.20	17.20	0.40	32.00	39.00	12.50	16.50	0.40	21.00	32.00	11.40	17.40	
March 2014	26.00	45.00	12.20	16.90	0.50	28.00	48.00	12.80	17.30	0.30	29.00	43.00	11.30	17.60	0.40	26.00	39.00	12.50	17.30	0.40
	26.00	45.00	10.20	11.40	0.30	27.00	48.00	13.50	16.50	0.50	30.00	42.00	11.40	17.40	0.50	25.00	35.00	12.60	16.30	0.40
Minimum	23	40	10.2	11.4	0.3	25	41	10.8	16.2	0.3	22	37	10.6	16.5	0.3	21	32	11.4	15.7	0.3
Maximum	28	48	13.6	17.8	0.5	29	48	13.5	18.5	0.5	32	47	13.4	18.6	0.5	27	49	13.8	18.3	0.5
Average	25.67	43.92	11.90	16.30	0.43	27.17	44.58	12.33	17.18	0.38	27.50	41.92	11.99	17.50	0.42	24.33	41.00	12.38	17.05	0.38

	Sultancy Service T - 360 002. Dm = admin@royalconsultancy.com	Date: 18/03/2014				Results	7.11	446	38	5	5.7	16	38		Amalyst
	AL		TER ANALYSIS			Prescribed Limits	I	I	l	-	I	I		-	Solitancy Service H. Ro
Wrona	Margan of		OF WASTE WATER ANALYSIS	Limited, ır - 362 715. District : Junagadh.	b Effluent	Units	pH Units	mg/l	l/gm	mg/l	I/gm	I/gm	I/Bm	l/gm	and the manual and
. Be for Env	Environe	Ref. No. : 77/03/2013-14	REPORT	Name of company : Ambuja Cements Limited, P.O. Ambujanagar - 362 715. Taluka : Kodinar, District : Junagadh.	Source of Sample : Treated Workshop Effluent Date of Sample collection: 12/03/2014	Parameters	Hd	TDS	Total Suspended Solids	Dissolved Oxygen	Oil & Grease	BOD (3 days at 27 c)	COD	Residual Chlorine	Royal Environment Audura & Consultancy Service
		Ref. N		Name	Source Date o	Sr. No.	01	02	03	04	05	90	07	08	Royal E

# (A) Capital Investment for Environmental Monitoring :

	Total : Rs. 57.08 Lakh
(3) Others (Monitoring Van & DG sets)	: 10.00 Lakh
(2) Environmental Laboratory	: 10.00 Lakh
(1) Monitoring Equipments	: 37.08 Lakh

## (B) Recurring expenditure for the period of October'13 to March'14 :

(1) Green belt development & dust suppression	: 25.26 Lakh
(2) Manpower cost*	: 10.70 Lakh
(3) House Keeping	: 0.74 Lakh
(4) Other Env. Protection (Environmental Monitoring)	: 0.47 Lakh
(5) Environmental Awareness*	: 0.16 Lakh

Total : Rs. 37.33 Lakh

\*Expenditures common for all the plants & mines.

# C) Community Development expenditure by Ambuja: Rs. 12.73 Crore Cement Foundation\*\*

\*\* Community development expenditure is common for all plant & mines at Ambujanagar for the period of April'2013 to March'2014. Programme wise Expenditure Details for the year 2013-2014 is as below :

	Ambu	ja Cement Found	ation - Ambuja	nagar				
	Details for prog	gramme wise exp	enditure for th	e year 2013-14				
					7		(Rs. In lakhs)	
Sr.No	Programme	Funds from ACF Resources	*Funds received through Government	from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.	
	GUJARAT - Kodinar							
1	Water Resource Mangement & Drinking Water Projects						-	
	a.Water Resource Devlopment	40.16	17.57				57.73	
	B .Drinking Water Programme	37.83	-	13.55	46.29	-	97.67	
	c. Salinity Prevention (KVY III)	81.61		52.60	90.93	90.01	315.15	
2	Agriculture Development( Farm Forestry &Afforesation)	38.36		16.88	145.03	186.33	386.60	
3	Better Cotton Initiative (BCI)	0.54		38.21	1.85	2.30	42.90	
4	Krishi Vigyan Kendra (KVK)	16.84	105.59		-		122.43	
5	Animal Husbandry Programme	0.44	-		-		0.44	
6	Health & Sanitation Programme	12.78			15.31	-	28.09	
7	Skill and Enterprunership Development Programme	26.79		15.97	23.78		66.54	
8	Village Knowledge Centre & Anganwadi exp	1.93			121		1.93	
9	Capacity Building & Training Programmes	0.21	-		141		0.21	
10	Women / Youth Development	6.82					6.82	
11	Integrated Community Development Programme	80.89					80.89	
12	Co-ordination & Administration Expenses	63.65					63.65	
13	Capital Expenditure	2.08					2.08	
1	TOTAL	410.93	123.16	137.21	323.19	278.64	1,273.13	

