

Ambuja Cement

REGD. A/D

ACL/EMD/F-16/2019/2049

25.11.2019

The Director,
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 of Vadnagar Limestone Mines (S.No.44)

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 April'19 to Sep'19 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 - Gir Somnath (Gujarat). We are also enclosing herewith a CD containing soft copy of the same.

Thanking you,

Yours faithfully,
For Ambuja Cements Ltd.



Anand Prakash
Head-Environment

Encl.: As above

Copy to:

- 1.) Central Pollution Control Board (CPCB) Privesh Bhavan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara - 390023 (Gujarat)
- 2.) Member Secretary, Gujarat Pollution Control Board (GPCB), Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010
3. Regional Officer, Gujarat Pollution Control Board (GPCB), Opp. Saint Anne's Church Station Road, Junagadh

Regd. Office :
PO : Ambujanagar - 362 715, Tal : Kodinar,
Dist. : Gir Somnath (Gujarat)
Phone : (02795) 221137, 232009,
Fax : (02795) 220328, 232032

Ambuja Cements Limited
(Unit : Ambujanagar)
CIN No. : L26942GJ1981PLC004717
www.ambujacement.com

Corporate Office :
Elegant Business Park,
MIDC Cross Road 'B',
Off Andheri - Kurla Road, Andheri (E)
Mumbai - 400 059. Phone : (022) 4066700

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests Regional Office (W), Bhopal

Monitoring Report Part-I

DATA SHEET

Date: 25.11.2019

01	Project type	:	Open Cast (Limestone & Marl) Mining
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)	:	Gir Somnath
	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).	:	Sh. Arun Kumar Sharma Sr. Vice President (Mines), Ambuja Cements Ltd PO :Ambujanagar , Taluka - Kodinar District : Gir Somnath (Gujarat) Pin. : 362715 Tel: 02795-237011 Fax: 02795 - 220328/232032
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	:	Dibyendu Behra Mines Manager Ambuja Cements Ltd PO Ambujanagar-362715 Taluka Kodinar, District: Gir Somnath (Gujarat). Tel: 02795-232064
06	Salient features	:	
	a) of the project :	:	Vadnagar Limestone Mining Lease (Survey No. 44) is located at a distance of about 4 Kms from the Cement Plants at Ambujanagar.
	b) of the environmental management plans	:	❖ Mining operations does not involve drilling & blasting. Limestone excavation is being carried out by Surface Miner supported by ripper dozer.

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

		<ul style="list-style-type: none"> ❖ Regular monitoring of Environmental parameters is being undertaken as per the norms of MoEF and IBM. ❖ Preventive maintenance of deployed HEMM is undertaken regularly. ❖ Dust suppression by water sprinkling on haul roads and in working area by water tanker. ❖ Afforestation / Green belt development along haul road and lease periphery is being carried out. ❖ Mined-out areas is being converted to pasture land, plantation and water reservoir as per approved mining plan. ❖ Rural Development and Socio-economic activities is being undertaken in the project buffer zone area.
07	Breakup of the project area.	
	a) Submergence area (forest & non-forest)	: Nil
	b) Others	108.97 ha : (Government Waste Land)
08	Break up of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan.	:
	a) SC, ST / Adivasis	: Not applicable
	b) Others (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 & year of survey)	Not applicable
09	Financial details Project cost as originally planned and subsequent revised estimates and the year of price reference.	: 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.

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

	a) Allocation made for environmental management plans with item wise and year wise break-up.	:	Capital Investment made for environmental management plans is 57.08 Lakhs
	b) Benefit cost ratio / Internal rate of return and the year of assessment.	:	No separate assessment made, as it is an integral part of the raw material source for the cement plants at Ambujanagar.
	c) Whether (c) includes the cost of environmental management as shown in the above.	:	Yes
	d) Actual expenditure incurred on the project so far.	:	5.0 Crore
	e) Actual expenditure incurred on the environmental management plans so far.	:	7.02 Crore
10	Forest land requirement.	:	The project area does not comprise of any forest land.
	a) The status of approval for diversion of forest land for non-forestry use	:	
	b) The status of clearing felling	:	
	c) The status of compensatory afforestation, if any	:	
	d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	:	
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		Existing project.
	a) Date of commencement (Actual and / or planned)	:	
	b) Date of completion (Actual and / or planned).	:	Not applicable.
13	Reasons for the delay if the project is yet to start.	:	Not applicable.
14	Dates of site visits	:	

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
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	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	:	12.10.10 to 13.10.10 by Dr. A. Mehrotra Regional Office, Bhopal
	b) Date of site visit for this monitoring report	:	12.10.10 to 13.10.10
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 30.05.2019 vide letter no. ACL/EMD/F-16/2019/1061



S No.	Condition	Compliance Status
(A). Specific Conditions :		
I	The project proponent shall obtain fresh Consent to Establish from the Gujarat Pollution Control Board for capacity of 1.5 million TPA of limestone and 1.15 million TPA of marl and effectively implement all the conditions stipulated therein.	<ul style="list-style-type: none"> Complied. <p>Fresh Consent to establish has been obtained from Gujarat Pollution Control Board vide letter no. GPCB/ID-29258/CCA/JNG-547/20162 dated 01.08.2012.</p>
II	The project proponent shall not carry out pumping of groundwater.	<ul style="list-style-type: none"> No pumping of ground water is being taken place.
III	The project proponent shall practice suitable rainwater harvesting measures on long term basis and work out a detailed scheme for rainwater harvesting in consultation with the Central Ground water Authority and submit a copy of the same to the Ministry of Environment and Forests and its Regional Office, Bhopal.	<ul style="list-style-type: none"> Water conservation measures to augment ground water resources in the area are being done by Ambuja Cement Foundation (ACF). A report about ACF & community development work done by ACF in surrounding areas is enclosed.

Ambuja Cement Foundation - Ambujanagar							
Details for programme wise expenditure for the year April 2019 to Sept. 2019							
Sr.No	Programme	ACF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp. (Rs. In lakhs)
	GUJARAT - Kodinar						
	Water Resource Mangement & Drinking Water Projects						
1	a.Water Resource Development	23.09	--	--	--	--	23.09
	B .Drinking Water Programme	18.70	--	--	2.40	--	21.10
	C. Salinity Prevention (KVV III)	--	--	--	--	--	0.00
2	Agriculture Development(Farm Forestry &Afforestation)	21.31	--	5.09	54.35	70.66	151.41
3	BCI	3.78	--	76.91	7.03	8.33	96.05
4	Krishi Vigyan Kendra (KVK) - Agriculture	2.36	53.22	--	--	--	55.58
5	Health & Sanitation	11.17	--	--	8.12	13.92	33.21
6	Women / Youth Development	6.15	--	--	--	--	6.15
7	Skill and Enterprunership Development Programme	12.24	--	81.00	7.13	--	100.37
8	Integrated Community Development Programme	50.02	--	--	--	--	50.02
9	Co-ordination & Administration Expenses	8.93	--	--	--	--	8.93
10	Non Plan	--	--	--	--	--	0.00
	TOTAL	157.75	53.22	163.00	79.03	92.91	545.91

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

IV	The project proponent shall effectively 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 spray of water in mining area and on transport road to keep air pollution under control and provision of a green belt of 25 m around the mine area.	<ul style="list-style-type: none"> Explosive is not being used at any phase of mining operation. Mining is being done by environment friendly surface mining technology. Regular maintenance of mining area is being done to keep mines environment clean. Regular sprinkling of water is being done to prevent fugitive dusting in mines area and on transport roads. Green belt development is being done and is an ongoing process.
V	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	<ul style="list-style-type: none"> Point noted. At no stage of mining natural water course will be obstructed by mining activity.
VI	Top soil, if any, shall be concurrently used for mine reclamation, plantation and green belt development.	<ul style="list-style-type: none"> 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	Catch drains and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment directly into the rivers and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after 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 capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	<ul style="list-style-type: none"> 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 is being collected into mined out pits. The drains are properly maintained and collected water is utilized for watering the mine area, Haul roads, green belt development etc.

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viii	The void left unfilled in an area of 56.0 ha shall be converted in to water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	<ul style="list-style-type: none">• Total Open mine area is 88.4668 Hec.• On higher benches plantation has been done and slope of higher benches are made gentler for easy accessibility by local people. Mined out area will be converted into water body.• Peripheral fencing with bella stone is provided along excavated area. Total 10219 meter brick wall, 7101 meter barbed wire and 7971 meter earthen bunds fencing have been done.			
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.	<ul style="list-style-type: none">• No overburden benches. Hence not applicable.			
X	Plantation shall be raised in an area of 54.5 ha including a 7.5m wide statutory barrier all around the mining lease, reclaimed and rehabilitated areas, around water body, roads etc. and in an area of 3.7 ha. Outside the mine lease by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1500 trees per hectare.	<ul style="list-style-type: none">• Till September 2019, 8.4469 ha area is covered under plantation and green belt development. Details of greenbelt/reclamation are enclosed as (a) & (b)			
(a)	Vadnagar MINES Greenbelt & Plantation Details till September , 2019				
	Total Lease Area (in ha)	Opened up Area (in Ha)	Planted Area (in Ha)	Pasture land (in Ha)	Water Body (in Ha)
	108.97	88.4668	8.6646	12.1889	31.0755
(b)	<div></div>				

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| XI | <p>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.</p> | <ul style="list-style-type: none"> Environment friendly Surface Miner machine is being used for mining. Surface miner has been provided with inbuilt facility of water sprinkling to suppress dust. On all haul roads regular water sprinkling is being done by water tankers. Photograph is enclosed as under (a). |
|----|--|---|






- | | |
|--|---|
| | <ul style="list-style-type: none"> Ambient Air Quality at identified locations is being carried out regularly. AAQ monitoring report is enclosed as under (b). |
|--|---|

Ambient Air Quality Monitoring Results																				
(April 2019 - September 2019)																				
Month	Average Ambient Air Quality Monitoring Results																			
	Working place					D-Block Crusher					Devalpara Village					Inchhavad Village				
	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)
April 2019	33.00	56.00	11.40	15.60	BDL	36.00	54.00	12.60	14.30	BDL	26.00	39.00	9.60	15.90	BDL	23.00	42.00	11.20	16.30	BDL
	33.00	69.00	12.40	14.20	BDL	37.00	69.00	11.50	16.40	BDL	26.00	45.00	10.20	11.70	BDL	23.00	47.00	11.60	12.60	BDL
May 2019	34.00	58.00	12.30	14.60	BDL	37	57.00	11.60	15.20	BDL	28.00	43.00	11.20	14.90	BDL	27.00	45.00	12.40	14.50	BDL
	33.00	69.00	11.40	15.20	BDL	37.00	65.00	12.50	14.30	BDL	26.00	43.00	12.60	15.60	BDL	23.00	46.00	12.80	12.70	BDL
June 2019	16.00	36.00	11.60	15.20	BDL	13.00	32.50	12.30	15.70	BDL	17.50	34.30	11.80	14.60	BDL	16.00	35.00	12.60	15.80	BDL
	30.00	51.00	11.70	15.30	BDL	34.00	59.00	10.50	13.60	BDL	30.00	52.00	12.60	15.20	BDL	28.00	57.50	11.00	13.00	BDL
July 2019	28.60	51.60	14.60	13.50	BDL	35.00	53.60	11.20	14.30	BDL	31.00	51.00	11.50	14.50	BDL	27.00	52.70	13.00	12.50	BDL
	27.30	50.50	10.50	14.30	BDL	26.10	52.60	13.20	14.20	BDL	25.90	51.30	10.40	13.80	BDL	28.00	53.80	11.80	14.60	BDL
Aug. 2019	30.70	52.30	10.80	14.70	BDL	33.50	48.90	11.60	13.40	BDL	29.30	50.20	11.20	14.10	BDL	25.00	50.60	11.80	14.50	BDL
	29.20	52.40	11.10	14.90	BDL	27.60	50.50	10.80	14.10	BDL	25.40	51.30	10.50	13.20	BDL	28.70	49.60	11.40	14.50	BDL
Sept. 2019	29.85	51.45	11.12	13.26	BDL	32.60	47.90	10.80	12.90	BDL	28.40	49.60	10.80	13.60	BDL	25.00	49.60	11.40	13.90	BDL
	28.66	51.30	10.90	13.56	BDL	26.30	48.90	11.30	13.30	BDL	24.30	50.80	9.80	12.60	BDL	26.30	47.90	11.20	13.30	BDL
Minimum	16.00	36	10.5	13.26	BDL	13	32.5	10.5	12.9	BDL	17.5	34.3	9.6	11.7	BDL	16	35	11	12.5	BDL
Maximum	34	69	14.6	15.6	BDL	37	69	13.2	16.4	BDL	31	52	12.6	15.9	BDL	28.7	57.5	13	16.3	BDL
Average	29.44	54.05	11.65	14.53	BDL	31.26	53.24	11.66	14.31	BDL	26.48	46.71	11.02	14.14	BDL	25.00	48.06	11.85	14.02	BDL

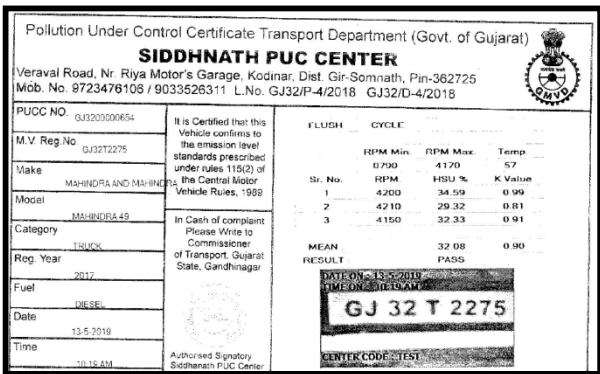
**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
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xii	<p>The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</p>	<ul style="list-style-type: none">Rainwater harvesting measures to augment ground water resources in the area has been done by Ambuja Cement Foundation (ACF).Details of water harvesting work & community development work done by ACF in surrounding area is enclosed as under																																																																																																																																																
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2	Agriculture Development(Farm Forestry &Afforesation)	21.31	--	5.09	54.35	70.66	151.41																																																																																																																																											
3	BCI	3.78	--	76.91	7.03	8.33	96.05																																																																																																																																											
4	Krishi Vigyan Kendra (KVK) - Agriculture	2.36	53.22	--	--	--	55.58																																																																																																																																											
5	Health & Sanitation	11.17	--	--	8.12	13.92	33.21																																																																																																																																											
6	Women / Youth Development	6.15	--	--	--	--	6.15																																																																																																																																											
7	Skill and Enterprunership Development Programme	12.24	--	81.00	7.13	--	100.37																																																																																																																																											
8	Integrated Community Development Programme	50.02	--	--	--	--	50.02																																																																																																																																											
9	Co-ordination & Administration Expenses	8.93	--	--	--	--	8.93																																																																																																																																											
10	Non Plan	--	--	--	--	--	0.00																																																																																																																																											
	TOTAL	157.75	53.22	163.00	79.03	92.91	545.91																																																																																																																																											
xiii	<p>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.</p>	<ul style="list-style-type: none">Complied. Water quality testing is carried out with the help of MoEF certified third party laboratory on Quarterly basis. Water levels are being recorded in open wells of buffer zone and piezometers are constructed in mines area core zone.Data collected is being communicated regularly to CGWA, New Delhi, MoEF Regional office (SEZ) Bhopal, CGWB Regional Director Gandhinagar .Ground water level & quality monitoring is being done regularly by establishing a network of ground water monitoring stations. Report is submitted to MoEF regional office Bhopal on six monthly basis. Ground water level & quality monitoring reports are enclosed as under :																																																																																																																																																

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

	<div><div><div><div><div><div></div><div><div>TALUKA LABORATORY</div><div>Jalbhavan Tulshishyam Road, Una.</div><div>PIN-362560. Phone:02875-221570.</div><div>Email:- unalab555@gmail.com</div></div></div></div><div><div><div><div><div><div></div><div><div>GUJARAT WATER TRAINING CENTRE</div><div>ODISH LABORATORIES</div></div></div></div></div></div><div><div><div><div><div><div>REPORT ON SHORT CHEMICAL EXAMINATION OF WATER</div><div>Name & Address Head Environment Ambuja Cement Ltd Ambuja Nagar Kodinar Kodinar</div><div>Sender's Ref. No. : ACL/EMD/F24/1046/2019 Ref. Date : 16-May-19 Sample Collected By : Sender</div></div></div></div><div><table><tr><th>Sr. No.</th><th>Lab. Reference : CW No.</th><th>***</th><th>***</th><th>194</th><th>195</th><th>196</th></tr><tr><td>1</td><td>Date of Collection</td><td>Value as per IS 10500 : 2012</td><td>16-May-19</td><td>16-May-19</td><td>16-May-19</td><td>16-May-19</td></tr><tr><td>2</td><td>Date of Arrival at Laboratory</td><td>(Second Revision)</td><td>17-May-19</td><td>17-May-19</td><td>17-May-19</td><td>17-May-19</td></tr><tr><td>3</td><td>Source of Water Sample</td><td>Requirement [Acceptable Limit] MAX</td><td>Permissible Limit in the absence of Alternate Source MAX</td><td>Private Well (8) Water Sample from Vadnagar Limestone Mines</td><td>Private Well (9) Water Sample from Vadnagar Limestone Mines</td><td>Private Well (10) Water Sample from Vadnagar Limestone Mines</td></tr><tr><td>4</td><td>Village</td><td>***</td><td>***</td><td>Vadnagar</td><td>Vadnagar</td><td>Vadnagar</td></tr><tr><td>5</td><td>Habitat</td><td>***</td><td>***</td><td>Vadnagar</td><td>Vadnagar</td><td>Vadnagar</td></tr><tr><td>6</td><td>Taluka</td><td>***</td><td>***</td><td>Kodinar</td><td>Kodinar</td><td>Kodinar</td></tr><tr><td>7</td><td>District</td><td>***</td><td>***</td><td>Gir-Somnath</td><td>Gir-Somnath</td><td>Gir-Somnath</td></tr><tr><td>8</td><td>Colour - Hazen Units</td><td>5</td><td>15</td><td>P Nil</td><td>P Nil</td><td>P Nil</td></tr><tr><td>9</td><td>Odour</td><td>Agreeable</td><td>Agreeable</td><td>Agreeable</td><td>Agreeable</td><td>Agreeable</td></tr><tr><td>10</td><td>Turbidity - NTU</td><td>1</td><td>5</td><td>0.2</td><td>0.24</td><td>0.28</td></tr><tr><td>11</td><td>Dissolve Solids - mg/l</td><td>500</td><td>2000</td><td>972</td><td>1042</td><td>514</td></tr><tr><td>12</td><td>Conductivity - µs/cm</td><td>500</td><td>1510</td><td>1628</td><td>803</td><td></td></tr><tr><td>13</td><td>pH</td><td>6.5 to 8.5</td><td>No Relaxation</td><td>7.56</td><td>7.68</td><td>7.94</td></tr><tr><td>14</td><td>Total Hardness (as CaCO₃) mg/l</td><td>200</td><td>600</td><td>320</td><td>380</td><td>200</td></tr><tr><td>15</td><td>Calcium (as Ca⁺⁺) mg/l</td><td>75</td><td>200</td><td>64</td><td>76</td><td>40</td></tr><tr><td>16</td><td>Magnesium (as Mg⁺⁺) mg/l</td><td>30</td><td>100</td><td>39</td><td>46</td><td>24</td></tr><tr><td>17</td><td>Chloride (as Cl⁻) mg/l</td><td>250</td><td>1000</td><td>340</td><td>340</td><td>120</td></tr><tr><td>18</td><td>Sulphate (as SO₄⁻²) mg/l</td><td>200</td><td>400</td><td>52</td><td>61</td><td>32</td></tr><tr><td>19</td><td>Nitrates (as NO₃⁻) mg/l</td><td>45</td><td>No Relaxation</td><td>68.00</td><td>68.50</td><td>32.30</td></tr><tr><td>20</td><td>Fluoride (as F⁻) mg/l</td><td>1.0</td><td>1.5</td><td>1.00</td><td>1.09</td><td>1.03</td></tr><tr><td>21</td><td>Alkalinity (as CaCO₃) mg/l</td><td>200</td><td>600</td><td>240</td><td>220</td><td>248</td></tr></table><div>Option for Potability is given as per Analysed test parameters only. UNFIT UNFIT FIT</div><div>Abbreviation : U.O. = Unobjectionable, Note : Excessive Turbidity, if any may be removed before use.</div><div>Note: * It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible limit in the absence of alternate source" above which the sources will have to be rejected.</div><div>1. Test Report is issued for assessing Chemical Fitness as per the BIS 10500:2012 for the given Drinking Water Sample only. 2. This Report should not be taken as a basis to getting license from any Government authority. 3. Chemical Sample must be submitted within 72 hours to laboratory from time of collecting sample. 4. Excessive Turbidity, if any may be removed before use.</div><div> Junior Scientific Assistant.</div><div>Outward No. : CAR / 38 / of 2019, Date: 25 / 06 / 2019</div></div></div></div></div></div></div></div>	Sr. No.	Lab. Reference : CW No.	***	***	194	195	196	1	Date of Collection	Value as per IS 10500 : 2012	16-May-19	16-May-19	16-May-19	16-May-19	2	Date of Arrival at Laboratory	(Second Revision)	17-May-19	17-May-19	17-May-19	17-May-19	3	Source of Water Sample	Requirement [Acceptable Limit] MAX	Permissible Limit in the absence of Alternate Source MAX	Private Well (8) Water Sample from Vadnagar Limestone Mines	Private Well (9) Water Sample from Vadnagar Limestone Mines	Private Well (10) Water Sample from Vadnagar Limestone Mines	4	Village	***	***	Vadnagar	Vadnagar	Vadnagar	5	Habitat	***	***	Vadnagar	Vadnagar	Vadnagar	6	Taluka	***	***	Kodinar	Kodinar	Kodinar	7	District	***	***	Gir-Somnath	Gir-Somnath	Gir-Somnath	8	Colour - Hazen Units	5	15	P Nil	P Nil	P Nil	9	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	10	Turbidity - NTU	1	5	0.2	0.24	0.28	11	Dissolve Solids - mg/l	500	2000	972	1042	514	12	Conductivity - µs/cm	500	1510	1628	803		13	pH	6.5 to 8.5	No Relaxation	7.56	7.68	7.94	14	Total Hardness (as CaCO ₃) mg/l	200	600	320	380	200	15	Calcium (as Ca ⁺⁺) mg/l	75	200	64	76	40	16	Magnesium (as Mg ⁺⁺) mg/l	30	100	39	46	24	17	Chloride (as Cl ⁻) mg/l	250	1000	340	340	120	18	Sulphate (as SO ₄ ⁻²) mg/l	200	400	52	61	32	19	Nitrates (as NO ₃ ⁻) mg/l	45	No Relaxation	68.00	68.50	32.30	20	Fluoride (as F ⁻) mg/l	1.0	1.5	1.00	1.09	1.03	21	Alkalinity (as CaCO ₃) mg/l	200	600	240	220	248	
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xiv	Appropriate mitigative measures shall be taken to prevent pollution of the Shingoda River and the Shom River in consultation with the State Pollution Control Board.	<ul style="list-style-type: none">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 boundary. There will be no discharge to Shingoda & Somat river.																																																																																																																																																										
xv	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the conveyor. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	<ul style="list-style-type: none">Vehicular emissions are being checked & monitored regularly. Detail of P.U.C certificate by Omkar driving school & P.U.C center (Approved by Government of Gujarat) is enclosed as under:All vehicles used for transportation of raw materials are being covered properly.																																																																																																																																																										

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xvi	Drilling and blasting operation shall not be carried out.	<ul style="list-style-type: none"> • Mining is being don 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.	<ul style="list-style-type: none"> • Crusher is provided with high efficient dust extraction system i.e. Bag Filter. • Bag filters are 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.	<ul style="list-style-type: none"> • Fresh Consent to Operate have been obtained from Gujarat Pollution Control Board vide letter No.GPCB/ID-29258/CCA/JNG-547(2)Dated 19/08/2017 , Consent Order No. AWH-87665.
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.	<ul style="list-style-type: none"> • Sewage treatment plant has already been installed & operational at Ambujanagar. For the waste water generated from workshop, Oil and grease trap has been provided.
xx	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	<ul style="list-style-type: none"> • Pre-placement medical examination and periodical medical examination of the worker engaged is being regularly carried out by team of doctors at our Occupational Health Centre.
xxi	Provision shall be made for the housing of construction labor 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	<ul style="list-style-type: none"> • All the required infrastructures are in place. The Condition is of during Construction/Start of Mining activity.

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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.	<ul style="list-style-type: none"> All the precautionary measures as per submitted action plan are 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.
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	<ul style="list-style-type: none"> 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.
(B) General Conditions		
i	No change in technology and scope of working should be made without prior approval of the MoEF	<ul style="list-style-type: none"> We are following the same mining practices through state of art Surface Miner as proposed. In case of any change in the mining technology and scope of working, we will take prior approval from Ministry of Environment, Forest & Climate Change.
ii	No change in the calendar plan including excavation, quantum of limestone, waste/ OB dumps should be made	<ul style="list-style-type: none"> Point noted & being complied.
iii	4 Ambient Air Quality monitoring stations should be established in the core zone as well as buffer zone for RSPM,SPM, SO ₂ & 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	<ul style="list-style-type: none"> Four ambient air quality monitoring locations have been identified as directed and are being monitored as per CPCB/SPCB guidelines. Ambient air quality monitoring reports are enclosed as under.

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Ambient Air Quality Monitoring Results																				
(April 2019 - September 2019)																				
Month	Average Ambient Air Quality Monitoring Results																			
	Working place					D-Block Crusher					Devalpara Village					Inchhavad Village				
	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)
April 2019	33.00	56.00	11.40	15.60	BDL	36.00	54.00	12.60	14.30	BDL	26.00	39.00	9.60	15.90	BDL	23.00	42.00	11.20	16.30	BDL
	33.00	69.00	12.40	14.20	BDL	37.00	69.00	11.50	16.40	BDL	26.00	45.00	10.20	11.70	BDL	23.00	47.00	11.60	12.60	BDL
May 2019	34.00	58.00	12.30	14.60	BDL	37	57.00	11.60	15.20	BDL	28.00	43.00	11.20	14.90	BDL	27.00	45.00	12.40	14.50	BDL
	33.00	69.00	11.40	15.20	BDL	37.00	65.00	12.50	14.30	BDL	26.00	43.00	12.60	15.60	BDL	23.00	46.00	12.80	12.70	BDL
June 2019	16.00	36.00	11.60	15.20	BDL	13.00	32.50	12.30	15.70	BDL	17.50	34.30	11.80	14.60	BDL	16.00	35.00	12.60	15.80	BDL
	30.00	51.00	11.70	15.30	BDL	34.00	59.00	10.50	13.60	BDL	30.00	52.00	12.60	15.20	BDL	28.00	57.50	11.00	13.00	BDL
July 2019	28.60	51.60	14.60	13.50	BDL	35.00	53.60	11.20	14.30	BDL	31.00	51.00	11.50	14.50	BDL	27.00	52.70	13.00	12.50	BDL
	27.30	50.50	10.50	14.30	BDL	26.10	52.60	13.20	14.20	BDL	25.90	51.30	10.40	13.80	BDL	28.00	53.80	11.80	14.60	BDL
Aug. 2019	30.70	52.30	10.80	14.70	BDL	33.50	48.90	11.60	13.40	BDL	29.30	50.20	11.20	14.10	BDL	25.00	50.60	11.80	14.50	BDL
	29.20	52.40	11.10	14.90	BDL	27.60	50.50	10.80	14.10	BDL	25.40	51.30	10.50	13.20	BDL	28.70	49.60	11.40	14.50	BDL
Sept. 2019	29.85	51.45	11.12	13.26	BDL	32.60	47.90	10.80	12.90	BDL	28.40	49.60	10.80	13.60	BDL	25.00	49.60	11.40	13.90	BDL
	28.66	51.30	10.90	13.56	BDL	26.30	48.90	11.30	13.30	BDL	24.30	50.80	9.80	12.60	BDL	26.30	47.90	11.20	13.30	BDL
Minimum	16.00	36	10.5	13.26	BDL	13	32.5	10.5	12.9	BDL	17.5	34.3	9.6	11.7	BDL	16	35	11	12.5	BDL
Maximum	34	69	14.6	15.6	BDL	37	69	13.2	16.4	BDL	31	52	12.6	15.9	BDL	28.7	57.5	13	16.3	BDL
Average	29.44	54.05	11.65	14.53	BDL	31.26	53.24	11.66	14.31	BDL	26.48	46.71	11.02	14.14	BDL	25.00	48.06	11.85	14.02	BDL

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	<ul style="list-style-type: none"> Point Noted & being complied. Our last submission was on 30.05.2019 vide letter No. ACL/EMD/F-16/2019/1061
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.	<ul style="list-style-type: none"> 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 tractor mounted water tankers.
vi	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc should be provided with ear plugs / muffs	<ul style="list-style-type: none"> All the workers working in high noise areas are 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 reports are enclosed as under.

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(a)

Ambient Noise Level Monitoring - Vadnagar Mines (S.No.44) April-2019 to Sep -2019										
Month	Noise Levels in dB(A)									
	Near Surface Miner		Haul road		mines offices		develpara village		Icchhved Village	
	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)
Apr-19	69	65	64	60	61	54	51	48	49	46
May-19	68	65	64	58	61	54	52	45	49	44
Jun-19	66	59	67	58	62	57	54	46	55	49
Jul-19	69	64	68	65	65	59	55	48	51	46
Aug-19	68	64	63	59	60	53	50	47	48	45
Sep-19	69	65	62	60	61	54	52	48	49	46

Noise Level of HEMM - Vadnagar Mines (S.No.44) April-2019 - Sep -2019									
Machine	Surface Miner			Loader			Dozer		
Month	Conditions	Noise Levels (dB)		Conditions	Noise Levels (dB)		Conditions	Noise Levels (dB)	
		At 5m. distance	At 10m. distance		At 5m. distance	At 10m. distance		At 5m. distance	At 10m. distance
		Leq	Leq		Leq	Leq		Leq	Leq
Apr-19	While mining	67	65	While loading to tipper	71	69	While dozing the material	71	68
May-19	While mining	64	59	While loading to tipper	72	60	While dozing the material	72	67
Jun-19	While mining	65	64	While loading to tipper	72	68	While dozing the material	69	67
Jul-19	While mining	71	67	While loading to tipper	74	72	While dozing the material	67	64
Aug-19	While mining	65	63	While loading to tipper	63	58	While dozing the material	66	61
Sep-19	While mining	68	64	While loading to tipper	71	67	While dozing the material	70	67


vi
i Industrial waste water (workshop and waste water from mine) should be properly collected, treated so as to confirm to the standards prescribed under GSR 422(E) dated 19.05.1993 & 31.12.1993 or as amended from time to time. Oil and grease trap should be installed before discharge of work shop effluents.

• Point noted and complied. Oil and grease trap has been installed at workshop for treatment of waste water before discharge of any work shop effluents. Regular monitoring is carried out by GPCB approved third party (M/s Royal Environment Auditing and Consultancy services, Rajkot) report is enclosed below :





Royal
Environment Auditing & Consultancy Service
303-304, Shivash-7, Bile Bar Adalat, Gondal Road, RAJKOT - 360 002.
Ph. +91 381 2360865 Email : royaleenvironment@live.com admin@royalconsultancy.co

TEST REPORT (WASTE WATER)								
Test Report No : 021/04/2019-20			Date : 01/05/2019					
Work Order No : 2800741301			Job Card No. : AMBUJA-P/2017-18/06					
Name & Address of Customer : Ambuja Cements Limited, P.O. Ambujanagar - 362 715. Taluka : Kodinar, District : Gir-Somnath.								
Attention : Mr. Anand Prakash								
Date of Sample Receipt : 15/04/2019			Date & Time of Sampling : 13/04/2019 at 10:10					
Lab ID : W/18-19/04/22			Date of Testing : 16th to 20th April 2019					
Sample Type : Waste Water			Description of Sample Packing : Glass Bottle					
Type of Sampling : Grab			Quantity of Sample : 2 Ltr.					
Description : Treated Waste Water			Sample Collected by : Mr. Brijraj Mori					
Sampling Method : IS 3025 : Part 1								
Location of Sample : Treated Water - Workshop								
Sr. No.	Parameters	Unit	Permissible Limits as per GPCB	Results	Test Method			
01.	pH	---	---	7.54	IS 3025 : Part 11			
02.	Total Dissolved Solid	mg/l	---	221	IS 3025 : Part 16			
03.	Total Suspended Solids	mg/l	---	7	IS 3025 : Part 17			
04.	Dissolved Oxygen	mg/l	---	5.1	IS 3025 : Part 38			
05.	Oil & Grease	mg/l	---	4.9	IS 3025 : Part 39			
06.	BOD (3 days at 27 °C)	mg/l	---	5.8	IS 3025 : Part 44			
07.	COD	mg/l	---	21.5	APHA : 5220 C			
08.	Residual Chlorine	mg/l	---	---	IS 3025 : Part 26			



Authorized Signatory





Tested by

1. This test report shall not be reproduced except in full, without written approval from the Royal Environment Auditing & Consultancy Service.
2. The results relate only to the item tested.
Doc. No. EAT 3025, Issue No. 02, Issue Date : 01-10-18, Amend No. --, Amend Date : --

Page 1 of 1

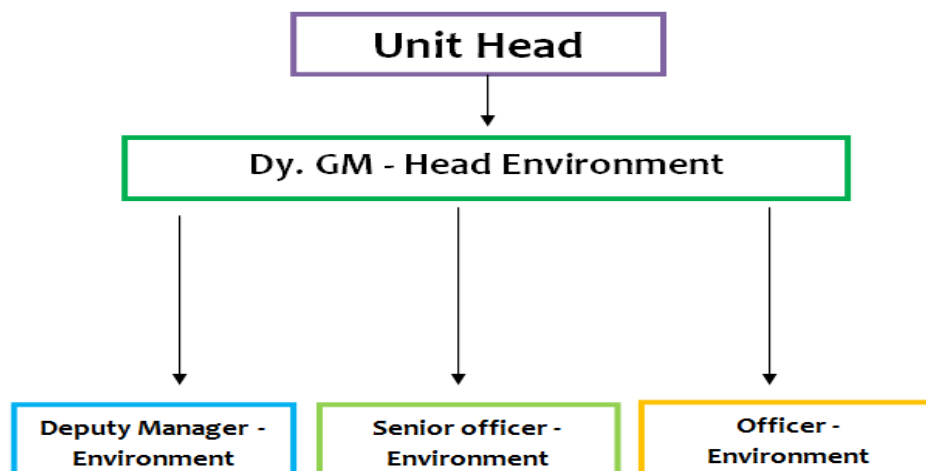
**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

viii	<p>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</p>	<ul style="list-style-type: none"> Dust Masks, Safety Shoes, Safety Goggles & Helmet are provided to each & every personnel working in the mine area. Periodic Health check up is being done for personnel working in mines area. Work area monitoring for air borne dust is carried out regularly on monthly basis, monitoring results are enclosed as under:
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Air Borne Dust Survey - Vadnagar Mines (S.No.44) April - 2019 to Sep - 2019											
Machine : Surface Miner				Machine : Dozer				Machine : Loader			
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)
18-Apr-19	14:00 - 22:00	Inside Cabin	0.36	19-Apr-19	14:00 - 22:00	Inside Cabin	0.38	20-Apr-19	14:00 - 22:00	Inside Cabin	0.34
13-May-19	06:00 - 14:00		0.36	14-May-19	06:00 - 14:00		0.35	15-May-19	06:00 - 14:00		0.32
11-Jun-19	14:00 - 22:00		0.3	12-Jun-19	14:00 - 22:00		0.25	13-Jun-19	14:00 - 22:00		0.32
23-Jul-19	06:00 - 14:00		0.34	24-Jul-19	06:00 - 14:00		0.31	25-Jul-19	06:00 - 14:00		0.28
20-Aug-19	14:00 - 22:00		0.32	21-Aug-19	14:00 - 22:00		0.29	22-Aug-19	14:00 - 22:00		0.36
16-Sep-19	06:00 - 14:00		0.3	17-Sep-19	06:00 - 14:00		0.28	18-Sep-19	06:00 - 14:00		0.32

ix	<p>A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.</p>	<ul style="list-style-type: none"> Environment Management Division (EMD) has already been set up with suitable qualified personnel. Head of environmental management cell directly reports to the Unit Head of the organization. EMD organization chart is enclosed as under.
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Organization Chart



**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

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.	<ul style="list-style-type: none">Point noted. Details of capital and recurring expenditure for environmental protection measures are enclosed as under																																																																																																																																																																																														
<table><tr><th colspan="3">Expenditure incurred in Environment Management Plan - VADNAGAR MINES</th></tr><tr><th colspan="3">A. Capital Cost</th></tr><tr><th>S.No</th><th>Particulars</th><th>Cost</th></tr><tr><td>1</td><td>Monitoring Equipments</td><td>37.08</td></tr><tr><td>2</td><td>Environment Laboratory</td><td>10</td></tr><tr><td>3</td><td>Others (Monitoring Van, DG Sets etc.</td><td>10</td></tr><tr><td></td><td>Total (In Lacs INR)</td><td>57.08</td></tr><tr><th colspan="3">B. Recurring Cost (April'19 to Sep'19)</th></tr><tr><th>S.No</th><th>Particulars</th><th>Cost</th></tr><tr><td>1</td><td>Green belt development & Dust suppression</td><td>13.23</td></tr><tr><td>2</td><td>Manpower Cost *</td><td>28.51</td></tr><tr><td>3</td><td>House Keeping</td><td>1.35</td></tr><tr><td>5</td><td>Other Env. 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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	<ul style="list-style-type: none">Point noted																																																																																																																																																																																														
xii	The regional office of this Ministry located at Bhopal shall monitor compliance of the stipulated environmental conditions. The project authority should extend full cooperation to the officer(s) of the regional offices by furnishing the requisite data / information / monitoring reports	<ul style="list-style-type: none">Point noted. Full support and co-operation is being extended during the visit of officers from Ministry of Environment & Forest, CPCB as well as GPCB. Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to 13.10.10																																																																																																																																																																																														
xiii	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	<ul style="list-style-type: none">Half yearly compliance status report is being regularly submitted and last submission was on 30.05.2019 vide letter No. ACL/EMD/f-16/2019/1061																																																																																																																																																																																														

**Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project
(S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009**

	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.	
xiv	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 concern.
xv	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.	• GPCB is the concern authority for the same.
xvi	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	• Advertisement was published in two local news papers. Copy of advertisement has been submitted to MoEF on 25.12.2010 vide letter no. ACL/EMD/F16/2010/55924.

Ambuja Cement Foundation (Unit: Ambujanagar, Kodinar, Gujarat)

Key Performance Indicators up to Sept. 2019

Sr. No	Details of Work/activities	Unit	Cummulative up to 2018-19	Achievements during 2019-20 (Sept. 19)	Cummulative up to 2019-20 (Sept. 19)
1A	Water Resources Management and Drinking Water Projects				
	a. Checkdam construction / Renovation	No	222	3	225
	c. Well Recharging / Percolation well	No	1268	0	1268
	d. Ponds Construction / Renovation	No	119	0	119
	e. Link Channels / Canals construction	Km	67.29	0	67.29
	f. Water Storage Tank / Farm Ponds	No	734	0	734
	g. Total surface water harvested	MCM	38.24	0.49	38.73
B	Drinking Water Projects				
	a. RRWHS Construction	No	3909	20	3929
	b. Drinking water wells / Bore wells / Renovation of Saline Wells	No	119	0	119
	c. Overhead / Cistern Tank construction/underground sump	No	25	0	25
	d. Community Based Drinking Water Project	No	58	0	58
C	Soil and Water Conservation				
	a. Area Treated (Gully Control / Gabion / loose boulder structure / weir crates / Khadine	Ha	11876	0	11876

2A	Agriculture Development				
	a. Micro Irrigation system, Drip and Sprinklers	Acre	11848.66	303.02	12151.68
	No. of farmers covered	No	2580	88	2668
	No of units	No	326	0	326
	No of families	No	299	0	299
	d. Training & Exposure visits	No	5900	469	6369
	Farmers trained	No	177463	43623	221086
	e. Vermi / NADEP Composting	No	158	0	158
	g. Aquaculture	No	120	0	120
	i. Seed Production programme	Acre	1166	0	1166
	j. Better Cotton Initiative - Area covered	Acre	34677	111698	146375
	- Farmers covered	No	26222	8504	34726
	k. Farmer producer organization	No	1	0	1
	l. No of members	No	1811	0	1811
B	Farm Forestry and Afforestation				
	a. Horticulture Plantation	Acre	12215.075	409.27	12624.345
	No of plants	nos	904112	22086	926198
	b. Agro-Farm Forestry	Acre	5391.01	0	5391.01
	c Afforestation	Acre	17.77	0	17.77
	d. Avenue plantation / Roadside plantation	Km	8.68	0	8.68
3	Animal Husbandry Programme				
	a. Cattle Health Camps	No	223	0	223
	Cattles Treated	No	174541	0	174541
	Cattle Immunised	No	26066	0	26066
	b. Fodder Demonstrations	Acre	2571.1	0	2571.1
	c. Artificial Insemination	No	49123	0	49123
	d. Integrated cattle feeding system	No	1394	0	1394
	e. Dairy co-operatives formed	No	1	0	1
	g. No of families benefited by AH programme		10463	0	10463
4	Non Conventional Energy				
	a. Biogas Plants	No	526	0	526
	b. Smokeless Chullahs	No	4671	0	4671
5	Education Development				
	b. School / Anganwadi (Balwadi) Support Programme	No	19	0	19
	h. Village / School Library	No	3	0	3
	i. Village Knowledge Centre / Computer education	No	3	0	3
	j. Adolescent Education Programme	No	4	0	4
	l. Students training / exposure visits	No	157	0	157
	n. Schools benefited	No	52	0	52
	o.No of students benefited under Education Development		8482	0	8482

Compliance Status of Environment Clearance issued to Vadnagar Limestone Mining Project (S.No.44) Vide MoEF Letter No: J-11015/336/2007IA-II (M) dated 14.01.2009

7	Health and sanitation Programme				
	a. No of camps organised (include all general and speciality health camps)	No	334	10	344
	Patients benefited	No	58669	1915	60584
	b. Villages benefited under mobile & weekly dispensary	No	22	0	22
	Patients treated	No	350102	0	350102
	c. Sakhis (Village Health Functionaries)	No	19	0	19
	d. Villages covered by Sakhis / Patients treated by Sakhis	No	14	0	14
	No of Patients treaded		32828	1324	34152
	e. Khelwadi sessions conducted by Sakhis	No	3611	0	3611
	f. Health intervention trainings done (include trainings of Sakhis / Govt. health fuctionereries)	No	36	7	43
	Participants in trainings	No	1089	197	1286
	g. Construction of Toilet Blocks / Sulabh Sauchalaya / Soak Pits	No	10900	123	11023
	h. Villages where Total Sanitation Campaign initiated	No	208	13	221
	i. No of Village Health Sanitation Committees activated	No	73	0	73
8A	HIV/AIDS Awareness Programme (Community)				
	h. No of people benefitted	No	138828	0	138828
B	Workplace Programme				
	a. Awareness session for Staff / Families / contract staff / laboures / Truckers / Students / Rural community	No	10818	0	10818
	b. Master Trainers / peer educators		64	0	64
9	Skill and Entrepreneurship Development Programme - Ambujanagar & Rajula				
	a. No of institute	No	2	0	2
	b. No of batches / courses	No	221	25	246
	c. Entrepreneurs trained under SEDI / ITI	No	4348	476	4824
	d. No of trainees placed	No	3554	309	3863
	e. No of trainees persuing (Continuation)			601	601
10	Women and Youth Development				
	a. No of SHG formed	No	600	40	640
	No of members	No	7413	437	7850
	b. Training & Exposure (women)	No	1058	62	1120
	No of participants	No	35888	1822	37710
	c. Training & Exposure (Youth)		81	0	81
	No of participants	No	4823	0	4823
	d. No of Federations Formed	No	1	0	1

11	Rural Infrastructure Development Programme				
	a. Construction of Common Pathways / Village Roads	No / Mtrs	81387.4	1670	83057.4
	b. Street Light installation	No	97	130	227
	c. Drainage construction	Mtrs	1075	0	1075
	d. Crematorium / Ghats construction/ Drinking water facilities	No	31	0	31
	e. Community Centre construction / School classroom	No	119	5	124
	f. Support for Social and Cultural Events	No	300	8	308
	g. House repairing	No	0	0	0
	h. Construction of culverts / bridge	No	9	2	11
	j. Construction of new School / school repairing	No	3	0	3
	k. No of villages covered	No	69	0	69
	l. const. of compound wall for common area	Rmt	920	140	1060
12	Gir Forest Conservation project				
	a. Construction of Parapet wall around wells to protect wild animals	No	1702	0	1702
13	Krishi Vigyan Kendra - Kodinar				
	a. No of villages covered	No	310	0	310
	b. No of farmers trained	No	120974	2607	123581
	c. No of technology transferred (FLD)	No	229	19	248
	d. No of technology tested (OFT)	No	83	5	88
14	Over all coverage				
	a. No of villages	No	409	101	510
	a. Approx No of People benefitted	No	875088	167907	1042995
15	KVY III programmes				
	a. IPM, INM & IDM practice adopted	Acre	67757	0	67757
	b. Soil testing	Farmers	3389	0	3389
	c. Village information centre	Villages	36	0	36
	d. SMS base agri. information system 3 SMS/month	Farmers	31645	0	31645
16	Community safety awarness programmes				
	Community Safety	No	826	51	877
	Total participant in community safety	No	22365	3232	25597