

Ambuja Cement

REGD. A/D

ACL/EMD/F-16/2022/ 2689

18.11.2022

The Director,

Ministry of Environment, Forest and Climate Change (MoEF&CC),
Regional Office, Western Region,
"Kendriya Paryavaran Bhavan"
Link Road No.3, Ravi Shankar Nagar,
Bhopal – 462016, (M.P.)

Sub.: Half Yearly Compliance Report of Environmental Clearance of RKBA Limestone Mines.

Ref.: Environmental Clearance Order No. J-11015/221/2008-IA.II (M) dated 04.03.11 & amendment on 05th August 2021.

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(April'2022 to September'2022)** of Environmental Clearance Order No. J11015/221/2008-IA. II(M) dated 04.03.2011 granted by MoEF&CC to **Rampara , Kukaras , Bhetali & Anandapara (RKBA) Limestone Mines**, located at village – Rampara, Kukras, Bhetali, Anandapara , Taluka – Veraval & Sutrapada, District – Gir Somnath (Gujarat).

This is for your information and record please.

Thanking you,

Yours Faithfully,

For Ambuja Cements Ltd.


Devendra Singh Chauhan
Head-Environment

Encl.: As above.

Copy to:

- 1) **The Central Pollution Control Board (CPCB)**, Privesh Bhavan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023 (Gujarat).
- 2) **The Member Secretary, Gujarat Pollution Control Board (GPCB)**, Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010.
- 3) **The 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

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

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests

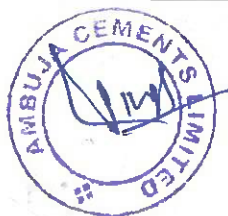
Regional Office (W), Bhopal

Monitoring Report

Part-I

DATA SHEET

01	Project type: River valley/ Mining/Industry/ Thermal/ Nuclear/ other specify	:	Mining Open Cast (Limestone)
02	Name of the project	:	Rampara-Kukras- Bhetali and Anandpara (RKBA) Limestone Mining Project
03	Clearance letter(s) / OM no. and date	:	J-11015/221/2008-IA.II (M), Dated 04.03.2011
04	Location	:	
	a) District(s)	:	Gir Somnath
	b) State(s)	:	Gujarat
	c) Latitude	:	20° 56' - 20° 58' N
	d) Longitude	:	70° 31' - 70° 34' E
05	Address for correspondence	:	
	a) Address of concerned Project Chief Engineer (with pin code & telephone / telex / fax numbers).	:	Sh. Devendra Singh Chauhan Head (Environment) Ambuja Cements Ltd. PO Ambujanagar, Taluka : Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-221137/232009/237403 Fax: 02795-220328/232032
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	:	Sh. Mahendra Singh Mertia Manager (Mines) Ambuja Cements Ltd. PO Ambujanagar, Taluka - Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-232064 Fax: 02795 - 220328/232032
06	Salient features	:	
	a) of the project :	:	Ambuja Cements Ltd. has established cement manufacturing plant at Ambujanagar in Kodinar Taluka of Gir Somnath District. Limestone is the main raw materials for the cement plants, which is being exploited from company's own captive mines i.e. Rampara, Kukras, Bhetali & Anandpara Limestone Mine. RKBA is located at a distance of about 30 kms in NW direction with respect to cement plant. The rated capacity of the limestone at present is 2.0 MTPA.
	b) of the environmental management plans	:	❖ Mining operations would not involve drilling & blasting. Limestone excavation is being carried out by environment friendly Surface Miner supported by ripper dozer. ❖ Regular monitoring of environmental parameters is undertaken as per the norms of MoEF and IBM and same will be followed. ❖ Preventive maintenance of deployed HEMM is being undertaken regularly and same will be continued. ❖ Dust suppression by water sprinkling on haul roads is being done regularly in working area and same will be continued.


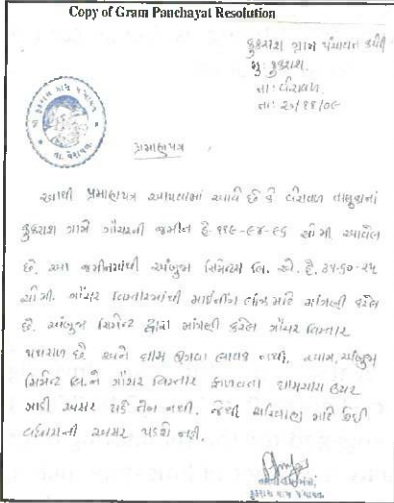
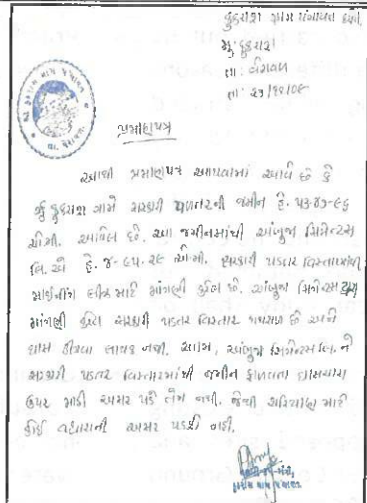
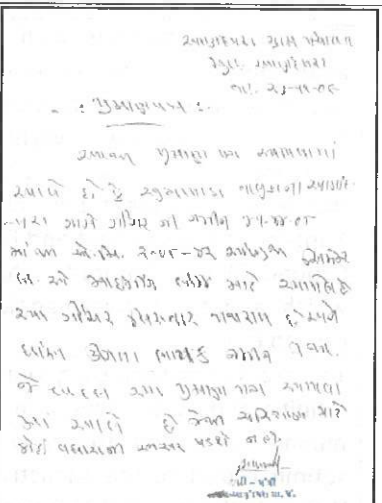


			<ul style="list-style-type: none">❖ Afforestation / Green belt development is being carried out concurrently along haul road, lease periphery and matured area as well as outside lease also (i.e. surrounding Mines office)❖ Mined-out areas will be converted to pasture land & into water reservoir.❖ Rural 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	:	310.3290 ha (Government waste land, Gauchar land & Private 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 laborers/ artisan.	:	Project does not require any rehabilitation or evacuation of permanent settlements as 87% of land is in our possession.																																																																																																																																																																																											
	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: Rs. 900 Lakhs																																																																																																																																																																																											
	a) 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.																																																																																																																																																																																											
	b) Allocation made for environmental management plans with item wise and year wise break-up.	:	Capital investment for environment protection measures - 57.08 Lakhs . List Are enclosed as under.																																																																																																																																																																																											
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	c) Benefit cost (BC) ratio / Internal rate of return (IRR) 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.																																																																																																																																																																																											

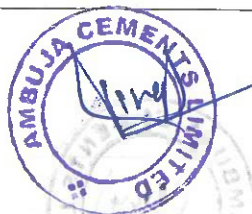
	d) Whether (c) includes the cost of environmental management as shown in the above.	:	Not Applicable
	e) Actual expenditure incurred on the project so far.	:	Rs. 11.59 Crores
	f) Actual expenditure incurred on the environmental management plans so far.	:	Rs. 12.25 Crores
10	Forest land requirement.	:	
	a) The status of approval for diversion of forest land for non-forestry use	:	The project area does not comprise of any forest land. Not applicable
	b) The status of clearing felling	:	Not applicable.
	c) The status of compensatory afforestation (CA), if any	:	Not applicable.
	d) Comments on the viability & sustainability of CA (compensatory afforestation) programme in the light of actual field experience so far.	:	Not applicable.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads), if any with quantitative information required.	:	The project does not involve felling of trees.
12	Status of construction (Actual & or planned)	:	
	a) Date of commencement (Actual and / or planned)	:	4.10.2005
	b) Date of completion (Actual and / or planned).	:	Not applicable. As it is an ongoing captive mining Project for cement plant. (Mines life is approximate 8 to 10 years based on reserves)
13	Reasons for the delay if the project is yet to start.	:	Not applicable.
14	Dates of site visits	:	
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	:	1.) 12.10.10 to 13.10.10 by Dr. A. Mehrotra Regional Office, Bhopal 2.) 27 th to 28 th October 2020 by Sh. Vishwa Bandhu Meena, Scientist -C, MoEFCC, IRD Bhopal
	b) Date of site visit for this monitoring report	:	1.) 12.10.10 to 13.10.10 2.) 27.10.2020 to 28.10.2020
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 26.05.2022 vide letter No. ACL/EMD/F-16/2022/2521/90454.






**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

S N	Condition	Compliance Status
(A). Specific Conditions :		
I	The project proponent shall obtain Consent to Establish and Consent to Operate from the Gujarat Pollution Control Board and effectively implement all the conditions stipulated therein.	<ul style="list-style-type: none"> Consent to establish & Consent to operate has been obtained from Gujarat Pollution Control Board vide letter no. GPCB/ID17276/CTE/CCA-JNG/30(2)/71073 dated 28 January 2011 & letter no. GPCB/CCA-JNG-(30)3/ID-17276/87008 dated 19.07.2011 respectively. All the conditions stipulated therein are being effectively implemented. Copy of Consent to establish & Consent to operate has been submitted to MoEF&CC vide our submission dated 30.12.2011 vide letter no. ACL/EMD/F-16/2011/62788. Latest CCA is valid up to 30/09/2025.
II	The environmental clearance is subject to approval of the State Land use Department, Government of Gujarat for diversion of agricultural land for non-agricultural use.	<ul style="list-style-type: none"> Necessary approval is being obtained from State Land use Department, Government of Gujarat for diversion of agricultural land for non-agricultural use. Details of land converted into non-agriculture land has been submitted to MoEF&CC vide our letter no. ACL/EMD/F-16/2011/136/59025 dated 28.06.2011
		
III	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained,	<ul style="list-style-type: none"> Necessary prior permission as applicable has been obtained from the Competent Authority & Village Panchayat has passed resolution for grazing land. Whereas Industries & Mines dept. Govt. of Gujarat has also granted Mines Lease Order. Copy of Lease Grant Order has been already submitted to MoEF&CC vide our submission dated 30.12.2011 vide letter no. ACL/EMD/F-16/2011/62788
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Copy of Gram Panchayat Resolution</p>  </div> <div style="width: 30%;">  </div> <div style="width: 30%;">  </div> </div>		
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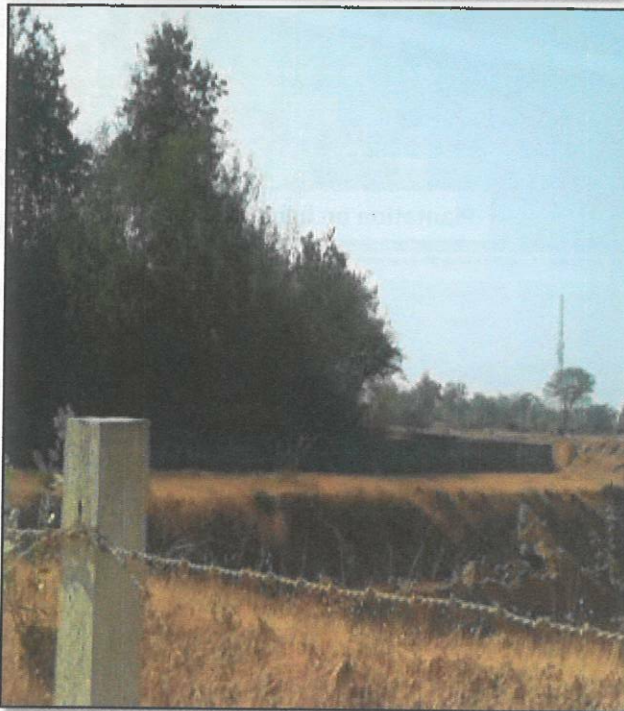
**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

IV	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	<ul style="list-style-type: none"> There is no non-mineralized area within entire lease. However we are converting the exhausted pits into pasture land/grazing land. Till Sep'2022 47.5219 Ha. Area has been converted in to pasture land.
		
V	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. The first order streams and the seasonal nallahs, if any originating from the mining lease area shall be protected.	<ul style="list-style-type: none"> Natural watercourse and/or water resources is not being obstructed due to any mining operations.
		
VI	The mining operations shall be so carried out by adjusting the working schedule in different seasons in such a manner, that the working will be restricted to above water table without resorting to any pumping of groundwater. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	<ul style="list-style-type: none"> Point noted and Mining is being carried out above the ground water table.
VII	The proponent shall carry out long term studies on salinity and water levels in and around existing mining areas and the new proposed sites and submit report to this Ministry and Central Ground Water Authority within a period of 6 months.	<ul style="list-style-type: none"> Ground Water & Mineral Investigation Consultancy Centre Pvt. Ltd. (GWMICC), Jaipur has been engaged for the monitoring of ground water quality & Impact of limestone mining and salinity ingress status around RKBA Limestone Mines and around ACL Plants and Mines in Gir Somnath District. A report on the same has been already submitted to MoEF vide our submission dated 21.05.11 vide letter no. ACL/EMD/F-16/2011 & also on 28.06.2011 vide letter no. ACL/EMD/F-16/2011/136/59025.



**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

VIII	The top soil shall be concurrently used for mine reclamation, plantation and green belt development.	<ul style="list-style-type: none"> Point noted and being complied. Top soil concurrently used for developing the Pasture land. The top soil being stacked separately in the ear marked site with appropriate measures. Top Soil is stored systematically. Road side bunds are made from poor grade material and Top soil is used in order to improve growth of planted species and to increase survival rate. Top Soil Generated till September'2022 is 3200 m³. The top soil has been used for developing the pasture land and green belt development.
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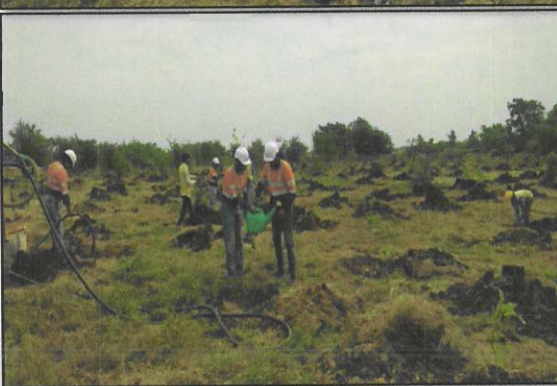


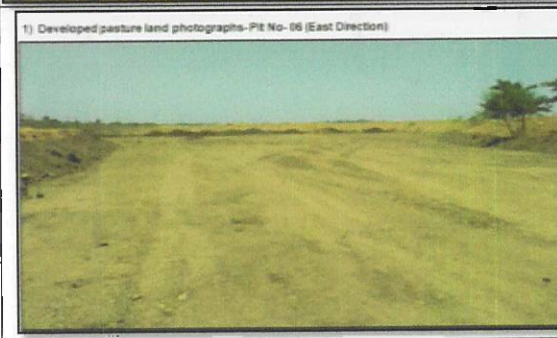



Serial No.	Area	Top Soil Generated (m ³)	Top Soil Utilized (m ³)	Balance Top Soil (m ³)
1	Area 1	1000	500	500
2	Area 2	1500	750	750
3	Area 3	2000	1000	1000
4	Area 4	2500	1250	1250
5	Area 5	3000	1500	1500
6	Area 6	3500	1750	1750
7	Area 7	4000	2000	2000
8	Area 8	4500	2250	2250
9	Area 9	5000	2500	2500
10	Area 10	5500	2750	2750
11	Area 11	6000	3000	3000
12	Area 12	6500	3250	3250
13	Area 13	7000	3500	3500
14	Area 14	7500	3750	3750
15	Area 15	8000	4000	4000
16	Area 16	8500	4250	4250
17	Area 17	9000	4500	4500
18	Area 18	9500	4750	4750
19	Area 19	10000	5000	5000
20	Area 20	10500	5250	5250
21	Area 21	11000	5500	5500
22	Area 22	11500	5750	5750
23	Area 23	12000	6000	6000
24	Area 24	12500	6250	6250
25	Area 25	13000	6500	6500
26	Area 26	13500	6750	6750
27	Area 27	14000	7000	7000
28	Area 28	14500	7250	7250
29	Area 29	15000	7500	7500
30	Area 30	15500	7750	7750
31	Area 31	16000	8000	8000
32	Area 32	16500	8250	8250
33	Area 33	17000	8500	8500
34	Area 34	17500	8750	8750
35	Area 35	18000	9000	9000
36	Area 36	18500	9250	9250
37	Area 37	19000	9500	9500
38	Area 38	19500	9750	9750
39	Area 39	20000	10000	10000
40	Area 40	20500	10250	10250
41	Area 41	21000	10500	10500
42	Area 42	21500	10750	10750
43	Area 43	22000	11000	11000
44	Area 44	22500	11250	11250
45	Area 45	23000	11500	11500
46	Area 46	23500	11750	11750
47	Area 47	24000	12000	12000
48	Area 48	24500	12250	12250
49	Area 49	25000	12500	12500
50	Area 50	25500	12750	12750
51	Area 51	26000	13000	13000
52	Area 52	26500	13250	13250
53	Area 53	27000	13500	13500
54	Area 54	27500	13750	13750
55	Area 55	28000	14000	14000
56	Area 56	28500	14250	14250
57	Area 57	29000	14500	14500
58	Area 58	29500	14750	14750
59	Area 59	30000	15000	15000
60	Area 60	30500	15250	15250
61	Area 61	31000	15500	15500
62	Area 62	31500	15750	15750
63	Area 63	32000	16000	16000
64	Area 64	32500	16250	16250
65	Area 65	33000	16500	16500
66	Area 66	33500	16750	16750
67	Area 67	34000	17000	17000
68	Area 68	34500	17250	17250
69	Area 69	35000	17500	17500
70	Area 70	35500	17750	17750
71	Area 71	36000	18000	18000
72	Area 72	36500	18250	18250
73	Area 73	37000	18500	18500
74	Area 74	37500	18750	18750
75	Area 75	38000	19000	19000
76	Area 76	38500	19250	19250
77	Area 77	39000	19500	19500
78	Area 78	39500	19750	19750
79	Area 79	40000	20000	20000
80	Area 80	40500	20250	20250
81	Area 81	41000	20500	20500
82	Area 82	41500	20750	20750
83	Area 83	42000	21000	21000
84	Area 84	42500	21250	21250
85	Area 85	43000	21500	21500
86	Area 86	43500	21750	21750
87	Area 87	44000	22000	22000
88	Area 88	44500	22250	22250
89	Area 89	45000	22500	22500
90	Area 90	45500	22750	22750
91	Area 91	46000	23000	23000
92	Area 92	46500	23250	23250
93	Area 93	47000	23500	23500
94	Area 94	47500	23750	23750
95	Area 95	48000	24000	24000
96	Area 96	48500	24250	24250
97	Area 97	49000	24500	24500
98	Area 98	49500	24750	24750
99	Area 99	50000	25000	25000
100	Area 100	50500	25250	25250

**Screenshot of Top Soil Register maintained
at mines Site office**




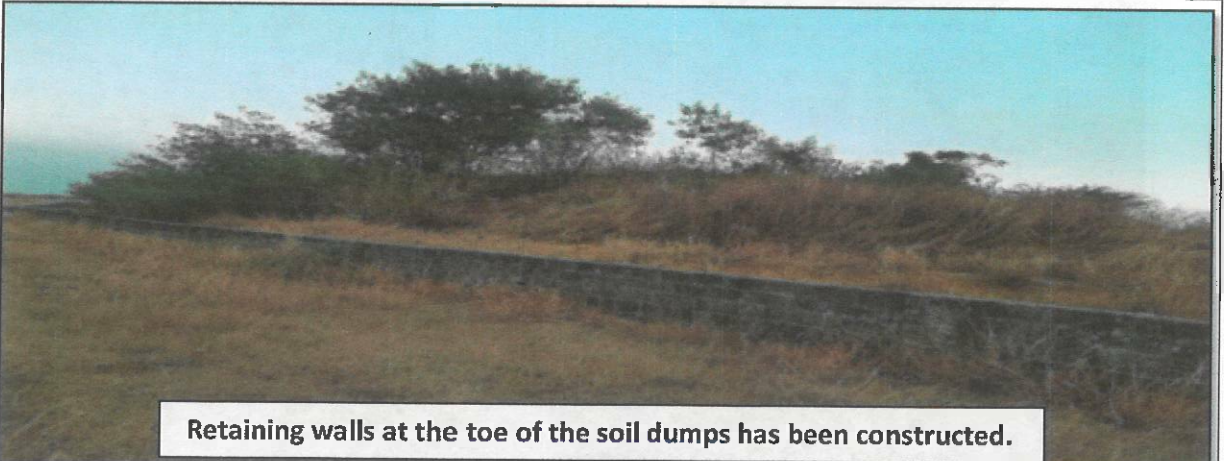


**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

IX	<p>Out of the total excavated area of 268.22ha, an area of 270.47ha shall be converted into pasture land/demo farm/plantation. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forest and its regional office located at Bhopal on six monthly basis</p>	<ul style="list-style-type: none"> Details of greenbelt/reclamation are enclosed as (a) & (b). Compliance status is being submitted to the Ministry of Environment & Forest and its regional office located at Bhopal on six monthly basis latest communication dated 26.05.2022 vide letter No . ACL/EMD/F-16/2021/2521/90454. Plantation Done From April 2022 to September 2022 is 1486. Total Cumulative plantation till September'2022 is 28589.
	 	 <p align="center">Plantation around Mine office</p>  <p align="center">Plantation on backfilled area</p>
(b)	<p>1) Developed pasture land photographs- Pit No- 06 (East Direction)</p> 	<p>2) Developed pasture land photographs- Pit No- 13</p> 
X	<p>The void left unfilled in an area of 9.6ha shall be converted into 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.</p>	<ul style="list-style-type: none"> Total Open mine area is 212.9596 Ha. On higher benches, plantation has been done and slope of higher benches will be made gentler as the mining progress. Peripheral fencing work is going on along the excavated area. Total 7108.8 meter brick wall, 31078.5 meter barbed wire and 29026 meter earthen bunds Fencing has been done till September'2022.



**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

		
XI	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the working pit and temporary soil and mineral dump(s) to arrest flow of silt and sediment directly into the agricultural fields and the 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 and temporary soil and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields and the 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.</p>	<p>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 pit.</p> <p>The drains are properly maintained and collected water is utilized for watering the mine area, roads, green belt development etc.</p> 
XII	<p>Dimension of the retaining wall at the toe of temporary soil and mineral dumps to check run-off and siltation should be based on the rain fall data.</p>	<p>Retaining wall has already been provided on the periphery of top soil storage area in order to prevent from run-off.</p>
	 <p align="center">Retaining walls at the toe of the soil dumps has been constructed.</p>	



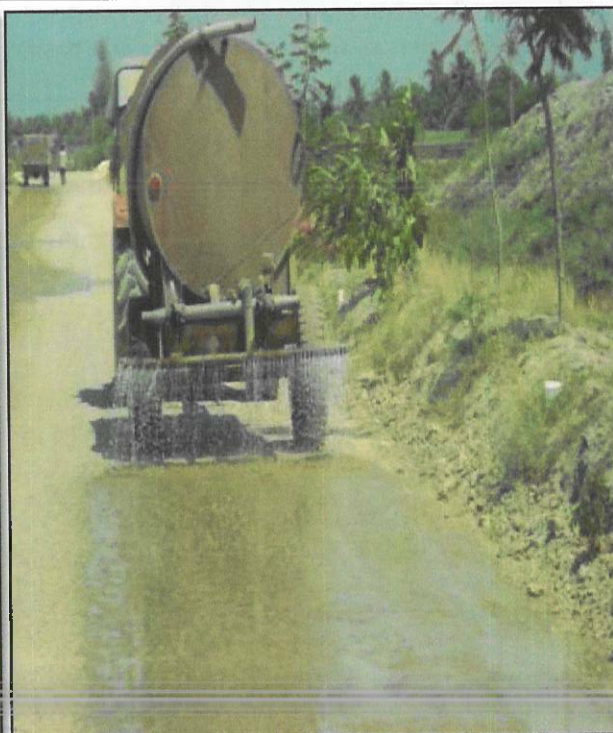
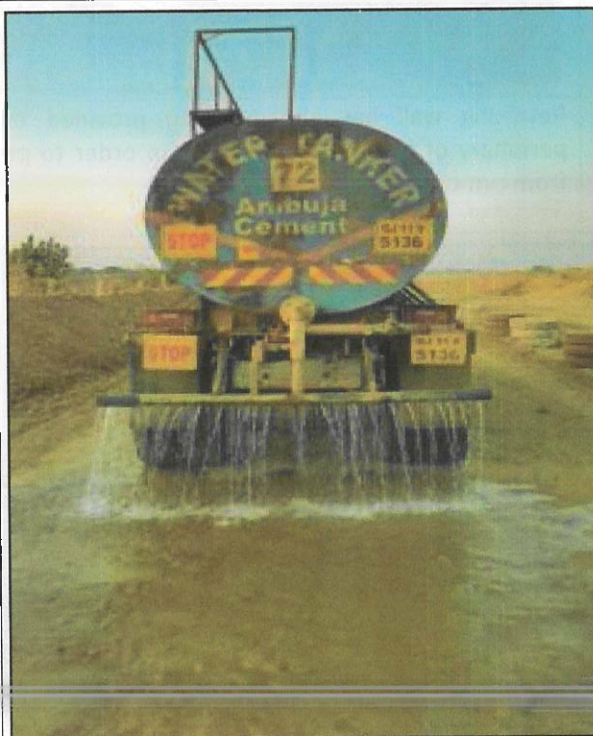
Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011

XIII	Green belt shall be raised in an area of 21.58ha including a 7.5m wide statutory barrier all around the mining lease, roads etc, by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2000 trees per hectare. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	<ul style="list-style-type: none"> Plantation Done From during 2022-2023 (Till September'2022) is 1486. Total Cumulative plantation till September'2022 is 28589 Nos. Remaining area will also be covered under plantation as per approved mining plan. Details of greenbelt/reclamation are enclosed as under :
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RKBA MINES Greenbelt & Plantation Details

Total Lease Area (in ha)	Opened up Area (in Ha)	Plantation From 2022-23	Pasture land (in Ha)	Water Body (in Ha)
310.3290	212.9596	1486	47.5219	50.9558

XIV	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high level of particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<ul style="list-style-type: none"> Water tankers have been deployed for regular sprinkling of water on haul roads to prevent fugitive dusting in mines area. Photographs are enclosed as under. Air quality monitoring is being done regularly for the parameters prescribed by the Central Pollution Control Board. Surface miner is having an inbuilt water spraying mechanism on the faces to suppress the dust particles.
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Regular water sprinkling is being done on haul roads at RKBA Mines Area



**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

XV	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.	Water conservation measures to augment ground water resources in the area are being done by our Ambuja Cement Foundation (ACF). ACF & community development work done by ACF in surrounding areas is enclosed as Annexure-1:
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Ambuja Cement Foundation - Ambujanagar							
Details for programme wise expenditure for the year April to Sept. 2022							
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						
1	Water Resource Mangement & Drinking Water Projects						
	A.Water Resource Development	16.34	3.69				20.03
	B.Drinking Water Programme	6.09			3.00		9.09
2	Agriculture Development (Drip irrigation, Farm Forestry & Afforestation)	8.78			75.16	111.97	195.91
3	BCI	18.65	0.10	202.35	109.49	250.83	581.42
4	Krishi Vigyan Kendra (KVK) - Agriculture	4.66	85.23				89.89
5	Health & Sanitation	8.11			9.14		17.25
6	Education Programme	3.71					3.71
7	Women / Youth Development	7.71					7.71
8	Skill and Enterprunership Development Programme	25.57	28.45		25.18		79.20
9	Integrated Community Development Programme	94.94					94.94
10	Co-ordination & Administration Expenses	42.41					42.41
11	Capital Expenditure						0.00
	TOTAL	236.97	117.47	202.35	221.97	362.80	1141.56

XVI Regular monitoring of ground water level and quality shall be carried out within the mine lease and in the surrounding area (up to 5 km of the mine lease) by establishing a network of groundwater monitoring stations (existing wells and installing new piezometers) during the mining operation in consultation with Central Groundwater Authority / Ground Water Board and groundwater table shall be monitored and records maintained. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority 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 salinity ingress in groundwater is observed due to the mining activity, necessary corrective safeguard measures shall be taken in consultation with the Central Ground Water Authority.

- Ground water level & quality monitoring is being done regularly by establishing a network of groundwater monitoring stations (existing wells and installing new piezometers). Report is submitted to MoEF&CC regional office Bhopal on six monthly basis. Ground water level & quality monitoring report is submitted vide our letter no. **ACL/EMD/F-10/2022/2505/427** dtd. **18.05.2022**. Report is as under.

Ambuja Cement

14.05.2022

AC/EMD/F-10/2022/2505/427

The Director,
Ministry of Environment, Forest and Climate Change (MoEF&CC),
Regional Office, Western Region,
"Bhadrak" Park, Bhopal,
India Post No. 462001, Bhopal.

Subject: Requesting submission of Ground Water level & quality monitoring Report of Rampura Khera Shakti and Anandpura (RKBA) Limestone Mine.

Ref No: 1. EC-J-11015/221/2008-IA-II (M) dated 04.03.2011.
2. COR/AMC/MINOR/2020/7541 dated 23.04.2020

Dear Sir,

This is in reference to above mentioned letter to our Rampura Khera Shakti and Anandpura Limestone Mine Project of M/s Ambuja Cement Limited, located at village Rampura Khera, District Anandpura, Tehsil Anandpura and Subdivision, District Anandpura, Gujarat.

As per the Environmental Clearance (EC) Specific condition No. XVI, we are pleased to submit Ground Water Level & Ground water Quality Monitoring Report for the year 2021 - 2022 of pre-monsoon (April-May), monsoon (August), post-monsoon (November), and winter (January).

Kindly acknowledge the receipt of the same.

Thanking You,

Yours Faithfully,
For Ambuja Cement Limited

(Signature)
Devendra Singh Chauhan
Head - Environment
Encl. As above

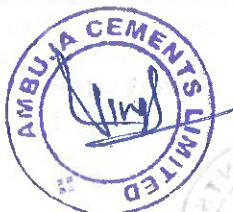
CC:

- The Ministry of Environment, Forest and Climate Change (MoEF&CC), 3rd Floor, Panch Wagon, India Park, Bhopal, for Reg. File No. 11015/221/2008-IA-II (M)
- Regional Director, Central Ground Water Board, West Central Region, Swarna Harappan Building, Shah Alam Park, Anandpura (Gujarat) Pin - 380022
- Central Ground Water Authority, Jangpura House, 15/11, Main Singh Road Area, New Delhi, India - 110002
- The Member Secretary, Gujarat Pollution Control Board, Parvatan Bhawan, Sector 10-A, Gandhinagar - 382010
- The Regional Officer, Gujarat Pollution Control Board, Opp. Anna's Church, Station Road, Anandpura - 382001

Regd. Office:
Ambuja Cement Limited
C/O. Ambujanagar
PO: Ambujanagar, Dist. Panchmahal, Gujarat
Pin - 389125
Phone: 079-25121177 (20 Lines)
Fax: 079-25121178

Ambuja Cement Limited
C/O. Ambujanagar
Dist. Panchmahal, Gujarat
Pin - 389125
Phone: 079-25121177 (20 Lines)
Fax: 079-25121178

Corporate Office:
Bhopal, India
Dist. Bhopal, Madhya Pradesh
Pin - 462001
Phone: 079-25121177 (20 Lines)
Fax: 079-25121178



Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011

Feb-22			Ground Water Quality Report of RKBA Mines							
S.N.	Ref.No.	IS 10500:2012 (S.R)		Well Water						Piezometers
		Desirable	Permissible	W3	W7	W8	W10	W13	W15A	Piezometer 2
Source				RAMPARA	RAMPARA	RAMPARA	RAMPARA	RAMPARA	RAMPARA	RKBA Mines
Village				VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL
Tafuka				GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH
District										
1 Color Hazen Units		5	15	3.12	2.08	2.08	3.12	3.12	3.12	2.08
2 Odour		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3 Taste		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4 Turbidity NTU		1	5	0.25	0.46	0.35	0.27	0.33	0.5	0.34
5 pH at 25°C		6.5 to 8.5	No Relaxation	8.02	8.07	7.77	7.93	7.76	7.82	7.97
6 Dissolved Solids mg/l		500	2000	846	998	890	1092	886	2750	792
7 Total Hardness (as CaCO3) mg/l		200	600	492	588	524	692	500	1340	460
8 Calcium (as Ca) mg/l		75	200	96	117	106	138	99	266	91
9 Magnesium (as Mg) mg/l		30	100	60	72	63	85	61	164	56
10 Chlorides (as Cl) mg/l		250	1000	164	188	168	172	184	764	136
11 Sulphates (as SO4) mg/l		200	400	79	94	84	111	80	215	74
12 Nitrates (as NO3) mg/l		45	No Relaxation	8.3	13.3	9.6	9.2	9.2	27.7	34.1
13 Fluorides (as F) mg/l		1	1.5	0.25	0.28	0.29	0.26	0.27	0.28	0.45
14 Alkalinity (as CaCO3) mg/l		200	600	204	204	212	220	224	292	188
Water Level				19.2	20.4	18.6	21.4	20.9	20.2	19.6
Opinion for potability is given considering above 14 Test Parameters only.										

XVI The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water), if any, required for the project.

- No withdrawal of ground water is being done. Water requirement for drinking is being met from private purchase. Whereas water requirement for dust suppression and greenbelt development is being met from harvested rain water in mined out pit.
- NOC has been granted vide letter No. CGWA/NOC/MIN/REN/1/2022/7138 dtd. 11.08.2022 from CGWA, New Delhi for abstraction of ground water a tune of 105 m³/day.

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name: RKBA Mines
 Project Address: Ambuja Cement Ltd., RKBA Limestone Mines, Taluka Veral and Suburda
 Village: Rampara Block: Palan Veral
 District: Gir Somnath State: Gujarat
 Pin Code: 362001
 Communication Address: RKBA Mines, Ambuja Cement Limited, Taluka Veral and Suburda, Kothari, Gir Somnath, Gujarat - 362010
 Address of CGWB Regional Office: Central Ground Water Board, Regional Office, Gujarat, Gandhinagar, Gandhinagar, Gandhinagar - 380022

1. NOC No: CGWA/NOC/MIN/REN/1/2022/7138
 2. Application No: 21-422/4/GWB/2021
 3. Category: (CGWB 2020) Safe
 4. Project Status: Existing Ground Water
 5. NOC Type: Renewal
 6. Valid from: 15/03/2022
 7. Valid up to: 15/03/2024

Fresh Water	m³/day	m³/year	Dewatering		Total
			m³/day	m³/year	
105.00	38250.00	13950.00	0.00	0.00	105.00

8. Details of ground water abstraction (existing and proposed)
 Total Existing Ha: 47407.50
 Total Proposed Ha: 47407.50

9. Abstraction Structure: DW DCR BW TW MP MP DW DCR BW TW MP MP
 10. Ground Water Abstraction Charges (Rs.) (Rs.)
 11. Number of Piezometers/Operational wells to be constructed/monitored & monitoring mechanism: No. of Piezometers: Monitoring Mechanism: Manual DVM/RT DVM/RT with Telemetry

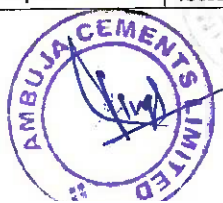
12. Other: Digital Water Level Recorder
 (Compliance Conditions given overleaf)
 This is an integrated document. No part to be dispensed.

1401, VANDANA, NEW DELHI-110001
 Phone: 011-26104646 Fax: 011-26104647
 Website: www.cgwb.gov.in

- Validity of this NOC shall be subject to compliance of the following mandatory conditions:
- No additional ground water abstraction and/or de-watering structure shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
 - The project shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
 - All new as well as existing ground water abstraction/de-watering structures shall be fitted with digital water flow meters by the firm who own/constructs/operate the structure or part of NOC in the case may be. In case of renewal of NOC, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Installation of flow meters shall be sent by the project to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continued to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year. In case the ground water abstraction is more than 10 m³/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Whenever groundwater withdrawal is more than 500 m³/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
 - In case ground water abstraction is more than 10 m³/day, ground water quality shall be monitored once in a year (during pre-monsoon period) and the report submitted to the Regional Director, CGWB.
 - Ground water augmentation/recharge measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the Regional Director, CGWB.
 - Proof of recharge water harvesting (photographs of structures constructed) shall be submitted to the Regional Director, CGWB. The firm shall also undertake periodic maintenance of recharge water harvesting structures at its own cost.
 - The firm shall conserve water use through recycling/reuse of water under other project treatment.
 - The project proponent shall take all necessary measures to prevent contamination of ground water in the premises, falling which the firm shall be responsible for any consequences arising therefrom.
 - In case of industries likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
 - Whenever the NOC is for abstraction of saline water and the existing wells (a) to (b) are yielding fresh water, the source of NOC. The firm shall also ensure safe disposal of saline effluent, if any.
 - In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring (four (4) times a year (January, May, August and November)) in core as well as buffer zones of the mine.
 - Unsanctioned violations in flow of ground water into the mine pit, if any, shall be reported to the Regional Director, Central Ground Water Board.
 - The firm shall report compliance of the NOC conditions online in the website (www.cgwb-noc.gov.in) within one year from the date of issue of the NOC.
 - This NOC is subject to prevailing Central/State Government rules/ laws/ norms or Court orders related to conservation of use of ground water abstraction structure/recharge or conservation of groundwater/abstraction of effluent or any such matter as applicable.
 - This NOC does not absolve the proponents of their obligation requirement to obtain other statutory and administrative clearances from appropriate authorities.
 - The issue of this NOC does not imply that other statutory administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
 - This NOC is valid for a period of 02 years from the date of issue of the NOC. Application for renewal of ground water or any other related matters.
 - Application for renewal of NOC shall not be entertained and subsequent ground water withdrawal, if any, shall be illegal & liable for legal action as per provisions of Environmental Protection Act (EPA), 1986.
 - In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA-1986 as and when decided by statutory authorities.
- (Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

XVI 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 Groundwater Authority and submit a copy of the same to the Ministry of Environment and Forests and its Regional Office, Bhopal.

Water conservation measures to augment ground water resources in the area are being done by our Ambuja Cement Foundation (ACF). Details of water harvesting work done by ACF in and around area are enclosed. Ground Water & Mineral Investigation Consultancy Centre Pvt. Ltd. (GWMICC), Jaipur has been engaged for the monitoring of ground water quality & impact of limestone mining and salinity ingress status around RKBA Limestone Mines and around ACL Plant. A report on the same has been submitted to MoEF&CC vide our submission dated 21.05.11 vide letter no. ACL/EMD/F-16/2011 & also on 28.06.2011 vide letter no. ACL/EMD/F-16/2011/136/59025.



**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

XIX	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. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Vehicular emissions are being checked & monitored regularly. Detail of P.U.C certificate by Somnath P.U.C center (Approved by : Veraval transport commissionerate, Gujarat) is attached as under :
XX	Drilling and blasting operation shall not be carried out.	Blast free eco-friendly machine i.e. Surface Miner is used for excavating the limestone. The noise levels are kept well within the permissible limits by system of condition monitoring of the equipment and well planned maintenance system.



XXI	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and physiography of the area and report submitted to the Ministry of Environment and Forests and its Regional Office located at Bhopal.	Digital processing of the entire lease area using remote sensing technique is being carried out regularly once in three years, we have engaged Compusense Automation, Ahmadabad for digital processing of entire lease area. Report of the year 2019 has been submitted vide our letter No. ACL/EMD/F10/2020/2093/87093 dtd.02.03.2020
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Ambuja Cement

ACL/EMD/F10/2020/2093/87093 Dtd. : 02.03.2020

The Director (a),
Ministry of Environment, Forest and Climate Change (MoEF&CC),
Regional Office, Western Region,
"Mahatma Park, Gandhinagar",
Link Road No.3, Rajiv Gandhi Nagar,
Bhopal (M.P.) 462016.

Subject: Submission of report on Digital processing of land use pattern & physiography of the entire lease area using remote sensing Technique for our RKBA Limestone Mines

Reference No.: EC-J-11015/221/2008-IA-II (M) dated April 29th 2011

Dear Sir,

This is with reference to EC granted by your good office vide letter No. J-11015/221/2008-IA-II (M) dated April 29th 2011 to M/s. Rampara-Kutras-Bhatla & Anandpara (RKBA) Limestone Mines Project of M/s. Ambuja Cements Limited, located at village of Rampara-Kutras-Bhatla & Anandpara Limestone Mines Tehsil Veraval and Sutrapada, District Junagadh (Now Gir, Somnath), Gujarat.

As per the **Specific condition No. XXI** of the Environment Clearance, we are pleased to submit the report on digital processing of land use pattern & physiography of the entire lease area using remote sensing technique conducted in October 2019 at **Annexure - I**.

This is for your kind information and record please.

Thanking You,
Yours Faithfully,
For Ambuja Cements Limited

(Signature)
Head-Environment

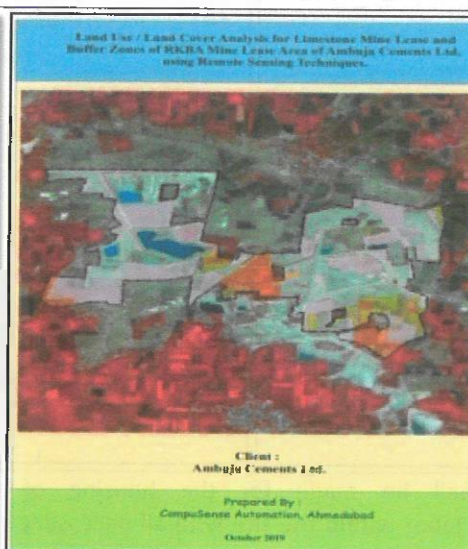
Encl: As above

CC: Ministry of Environment, Forest and Climate Change, 3rd Floor,
Pratibha Wing, Indira Park, Gandhinagar, New Delhi-110003

For Office:
PO: Gandhinagar - 400 015, Tel: Kolkata,
MO: 033-2555-12345
Fax: 033-2555-12345

Ambuja Cements Limited
GIR, Gandhinagar
CL No. 12345678901234567
www.ambujacement.com

Corporate Office:
Bhopal, Madhya Pradesh,
MO: 071-2555-12345
CL No. 12345678901234567
Fax: 071-2555-12345



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XXII	Land oustees and land losers/affected people should be rehabilitated as per the National Policy on Resettlement and Rehabilitation of project Affected Families (NPRR)/State Government norms.	Compensation to land looser is being provided almost double of the standard rate of Gujrat Govt. We ensure that landlooser must have ownership of alternate land and for that we provide advance and other helps.
XXIII	Mineral handling area shall be provided with the 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.	Not applicable.
XXIV	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	There is no residential colony at mine site. However, township is located at Ambujanagar, where 1500 m ³ /day capacity Sewage Treatment Plant is established. At workshop baffle type oil & grease separation system has been provided, treated water from oil & grease separation system is being used for dust suppression.
XXV	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	Pre-placement medical examination and periodical medical examination of the workers engaged in the project is being carried out regularly and record is maintained.

SATISA MOHANTY, Emp. No. 201087 (Mines)

FORM - M
(See Rule 29 D)

Notice of initial/periodical medical examination under rule 29 B

No. _____ Date: _____

Sri/Smt. SATISA MOHANTY Nature of employment GEOLOGIST serial number from B register 41 Son/Daughter/Wife of UTKAL RANJAN MOHANTY is hereby notified the he/she should present himself/herself for an initial/periodical medical examination, under Rule 29B of the Mines Rules, 1955 before _____ (give date) at AMBUJA HOSPITAL (give time) _____

Sri/Smt. SATISA MOHANTY may note that if he/she fails, without reasonable cause, to submit himself/herself for the medical examination aforesaid he/she shall not be eligible for appointment/continuance in employment in the Mines from RKBA LIMESTONE MINES

Sri/Smt. SATISA MOHANTY may further note that he/she should bring with him/her these unaltered photographs of himself/herself and the previous medical certificate in Form O, if any, issued to him/her under Rule 29 F.

Signature of Manager
MANAGER Mine
AMBUJA CEMENTS LTD.
VII, Thane Road, Rajkot
Gujarat - 360 001

Delete whatever is not applicable.
 Necessary only in case of person already employed in the Mine.
 In respect of initial medical examination of person already employed in a mine in respect of every periodical medical examination, at least twenty days prior notice is to be given in respect of the initial medical examination or a person seeking employment at a mine, the period of notice may be shorter.

Note: A copy of the notice shall be sent to the examining authority concerned. In the case of periodical medical examination the copy of medical certificate in Form-O shall also be sent.

SATISA MOHANTY, Emp. No. 201087 (Mines)

FORM - O
(See Rule 29 F (2) and 29 L)

Report of Medical Examination under Rule 29B
(To be issued in triplicate)

Certificate No. _____

Certificate that Sri/Smt. SATISA MOHANTY employed as GEOLOGIST in RKBA LIMESTONE MINES, Form B No 41 has been examined for an initial/periodical medical examination. He/She appears to be DOB 07.07.1988 Years of age. The findings of the examining authority are given in the attached sheet. It is considered that Sri/Smt. SATISA MOHANTY (a) is medically fit for any employment in mines.

* (b) is suffering from _____ and is medically unfit for:
 (i) any employment in mine, or
 (ii) any employment below ground; or
 (iii) any employment or work _____

(c) is suffering from _____ and should be again examined within a period of _____ months. He/She will appear for re-examination with the result of test of _____ and the opinion of _____ specialist from _____

her duties during this period.

Signature of the Examining Authority
10/11/11

Name and Designation in Block : _____
 Letters _____

Place _____ Date : _____

Delete whatever not applicable.
 One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to Manager of the mine concerned by register post, and the third copy shall be retained by the examining authority.

SATISA MOHANTY, Emp. No. 201087 (Mines)

REPORT OF THE EXAMINING AUTHORITY
(To be filed in for every medical examination whether initial or periodical or re-examination or after cancellation of disability)

Annexure to Certificate No. _____ as a result of Medical Examination _____

Identification mark: _____

Left thumb impression of the candidate

1. General development: Good/Fair/Poor
 Height 74 cms. 3. Weight 97 Kgs

2. Eyes: (i) Visual acuity/Distant vision (with or without glasses)
DU - 6/6 DS - 6/6
 Right eye 10/10 Left eye 10/10
 (ii) any organic disease of eyes
 (iii) sight blindness
 (iv) colour blindness
 (v) Squint
 (To be tested in special cases)

3. Ears: (i) Hearing: Right ear 10/10
 Left ear 10/10
 (ii) any organic disease: No

4. Respiratory system: Chest measurement
 (i) after full inspiration 106 cms.
 (ii) after full expiration 103 cms.

5. Circulatory system: Blood pressure 110/60 mm Hg
 Pulse 60/min

6. Abdomen: Tenderness _____ Liver _____
 Spleen _____ Tumour _____

XXVI	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	There is no project work/construction work at mines area and thus there is no such requirement. However, whenever such requirement will be generated, provision will be set up.
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XXVII

The critical parameters such as RSPM (Particulate matter with size less than 10 µm i.e., PM₁₀), NO_x in the ambient air within the impact zone, shall be monitored periodically, Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006~IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

Ambient Air quality monitoring and water quality monitoring is being done regularly and report is submitted to GPCB & MoEF&CC. Results of Air & Water quality monitoring is being uploaded on the website of the company as well as displayed on a display board at the project site near mines office. The Ambient Air quality monitoring results for past 6 Months for PM₁₀, PM_{2.5}, SO₂, NO_x and CO are enclosed as under.

Ambient Air Quality Monitoring Results
(April 2022 - September 2022)

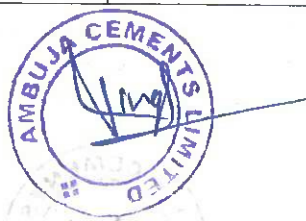
Month	Working Place					Mines Office					Kukaras Village				
	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
Apr-22	28.60	42.80	10.60	18.70	BDL	35.80	44.80	14.80	14.50	BDL	34.60	48.70	12.50	15.20	BDL
	36.80	45.90	16.80	12.60	BDL	38.70	40.60	14.80	10.60	BDL	30.60	41.60	12.50	9.80	BDL
May-22	30.10	43.60	12.60	16.40	BDL	28.90	40.50	13.50	12.50	BDL	32.60	42.60	14.80	13.50	BDL
	28.90	40.60	16.70	10.60	BDL	30.60	42.50	14.60	9.80	BDL	36.70	43.60	12.50	13.60	BDL
Jun-22	28.90	40.50	13.60	14.60	BDL	25.60	42.60	15.80	13.50	BDL	24.60	43.50	14.60	18.70	BDL
	30.60	44.50	12.50	13.60	BDL	28.70	38.90	13.60	10.50	BDL	26.90	39.60	15.80	14.20	BDL
Jul-22	28.40	35.60	10.10	16.40	BDL	26.50	30.20	12.80	15.70	BDL	20.80	29.80	18.70	12.60	BDL
	22.50	30.50	16.70	10.50	BDL	28.70	38.90	15.60	13.60	BDL	26.90	39.40	12.50	18.70	BDL
Aug-22	25.90	32.80	12.60	16.90	BDL	30.10	36.90	13.50	15.80	BDL	29.80	38.40	18.70	17.40	BDL
	29.80	32.60	10.60	16.50	BDL	25.40	33.80	15.70	13.40	BDL	27.60	38.90	9.80	17.90	BDL
Sep-22	26.90	36.80	16.50	12.60	BDL	30.20	37.40	12.40	13.50	BDL	28.70	39.80	11.30	10.60	BDL
	26.40	30.40	16.20	10.60	BDL	24.80	32.90	16.00	13.50	BDL	28.50	39.70	15.20	12.90	BDL
Minimum	22.5	30.4	10.1	10.5	BDL	24.8	30.2	12.4	9.8	BDL	20.8	29.8	9.8	9.8	BDL
Maximum	36.8	45.9	16.8	18.7	BDL	38.7	44.6	16.0	15.8	BDL	36.7	48.7	18.7	18.7	BDL
Average	28.7	38.1	13.8	14.2	BDL	29.5	38.3	14.4	13.1	BDL	29.0	40.5	14.1	14.6	BDL

Month	Anandapara Village					Bhetali Village					Rampara Village				
	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
Apr-22	36.70	40.60	13.60	12.50	BDL	30.40	38.70	17.80	11.40	BDL	31.70	39.50	14.50	10.40	BDL
	28.90	42.50	11.50	13.60	BDL	29.70	39.80	10.60	14.80	BDL	24.60	38.70	17.60	17.30	BDL
May-22	33.80	44.80	16.50	14.70	BDL	38.70	43.90	11.50	10.60	BDL	39.40	47.60	12.70	14.90	BDL
	28.70	47.60	10.30	15.40	BDL	30.60	40.20	15.40	12.40	BDL	32.40	43.90	12.30	10.30	BDL
Jun-22	27.60	38.90	12.50	14.60	BDL	30.60	39.70	10.50	12.50	BDL	32.50	30.50	16.80	10.60	BDL
	28.10	36.50	12.00	12.80	BDL	23.60	32.50	10.50	10.60	BDL	32.40	33.80	13.80	13.80	BDL
Jul-22	21.60	28.70	14.60	11.50	BDL	22.80	32.60	13.50	13.80	BDL	29.80	30.50	19.70	16.70	BDL
	29.40	36.80	13.40	16.40	BDL	20.60	32.60	14.90	12.30	BDL	23.60	31.70	14.00	11.90	BDL
Aug-22	25.60	36.70	16.40	13.60	BDL	27.10	35.40	14.20	12.50	BDL	26.90	30.50	11.80	10.80	BDL
	23.50	34.50	16.50	18.60	BDL	21.80	31.60	13.70	13.20	BDL	23.90	30.70	17.50	10.50	BDL
Sep-22	24.50	38.50	13.70	19.80	BDL	26.90	33.60	17.80	17.20	BDL	28.70	36.10	18.40	18.50	BDL
	26.30	35.40	14.90	14.70	BDL	25.10	36.90	18.70	18.20	BDL	20.60	33.20	15.40	10.60	BDL
Minimum	21.6	28.7	10.3	11.5	BDL	20.6	31.6	10.5	10.6	BDL	20.6	30.5	11.8	10.3	BDL
Maximum	36.7	47.6	16.5	19.8	BDL	38.7	43.9	18.7	18.2	BDL	39.4	47.6	19.7	18.5	BDL
Average	27.9	38.5	13.8	14.9	BDL	27.3	36.5	14.1	13.3	BDL	28.9	35.6	15.4	13.0	BDL

XXVIII

A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

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.



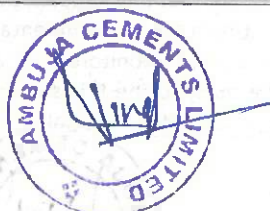
**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
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B. General conditions		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	We are following 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 mineral limestone and waste should be made.	Point Noted
(iii)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	"Status of Biodiversity (Flora & Fauna) in core and buffer zone areas of RKBA Limestone Mine Lease (310.329ha) study area is prepared by Gujarat Institute of Desert Ecology-Kutchh" and the same has been submitted to the office of the PCCF and the concurrence is obtained. Report submitted to MoEF&CC vide letter no. ACL/EMD/F16/2010/55293 dated 25.12.2010.
(iv)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) and NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Six ambient air quality-monitoring stations have been established in the core zone as well as in the buffer zone. The locations of the monitoring stations are decided in consultation with GPCB and renowned consultant Shri B Padmanabh Murthy, Professor of JNU and former Director of IMD Met-Dept on 5th and 6th Jan 2008. Ambient air quality is being monitored regularly and report is being regularly submitted to GPCB & MoEF&CC. The Ambient Air quality monitoring results for past 6 Months for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and CO are enclosed in reply of Condition No. XXVII as above.
(v)	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) & NO _x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.	Ambient air quality is being monitored regularly and report is being regularly submitted to GPCB & MoEF&CC. Last submission was on 26.05.2022 vide letter No . ACL/EMD/F-16/2022/2521/90454.
(vi)	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.	Water tankers have been deployed for regular sprinkling of water on haul roads to prevent fugitive dusting in mines area. Air quality monitoring is being done regularly and conform the norms prescribed by GPCB.
(vii)	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.	Blast free eco-friendly machine i.e. Surface Miner is used for excavating the limestone. The noise levels are kept well within the permissible limits by system of condition monitoring of the



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	equipment and well planned maintenance system. Ambient noise monitoring as well as HEMM noise monitoring report is enclosed for April'2022 to September'2022 as under (a) & (b) :														
(a)	Ambient Noise Level Monitoring - RKBA Limestone Mines (April 2022 - September 2022)														
	Month	Noise Levels in dB(A)													
		Near Surface Miner		Haul road		Mines Office		Rampara Village		Kukaras Village		Bhetali Village		Anandapara Village	
		Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)
	Apr-22	66	62	65	63	54	52	56	52	52	49	54	48	54	53
	May-22	69	65	62	53	65	60	51	34	46	39	48	38	49	41
	Jun-22	66	58	63	55	54	53	57	51	48	35	46	39	46	40
	Jul-22	63	58	63	57	58	52	46	38	46	38	47	40	45	36
	Aug-22	65	55	64	57	57	53	46	38	48	36	46	41	46	34
	Sep-22	62	57	62	56	57	51	45	39	47	39	46	39	43	37
(b)	Noise Level of HEMM RKBA Limestone Mines (April 2022 - September 2022)														
	Noise Levels in dB(A)														
	Machine	Surface Miner				Loader				Dozer					
	Month	Conditions	At 5m.	At 10m.	Conditions	At 5m.	At 10m.	Conditions	At 5m.	At 10m.	Conditions	At 5m.	At 10m.		
			Leq	Leq		Leq	Leq		Leq	Leq		Leq	Leq		
	Apr-22	While dozing the material	75	70	While loading to tipper	68	62	While mining	72	68					
	May-22		64	58		74	69		68	67					
	Jun-22		69	65		68	65		65	64					
	Jul-22		64	65		71	67		68	64					
	Aug-22		68	65		68	67		73	69					
	Sep-22		69	63		66	63		70	62					
(viii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.							'No waste water generation from Mines' only negligible amount of waste water is generated from workshop, which is being treated at baffle type oil and grease separation system and treated water is being used for plantation/greenbelt development.							
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.							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 for April'2022 to September'2022 are enclosed as under :							
Air Borne Dust Survey - (April 2022 - September 2022)															
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)				
11-Apr-22	14:00 - 22:00	Inside Cabin	0.44	12-Apr-22	14:00 - 22:00	Inside Cabin	0.38	13-Apr-22	14:00 - 22:00	Inside Cabin	0.37				
25-May-22	06:00 - 14:00		0.31	26-May-22	06:00 - 14:00		0.26	27-May-22	06:00 - 14:00		0.27				
16-Jun-22	14:00 - 22:00		0.29	17-Jun-22	14:00 - 22:00		0.27	18-Jun-22	14:00 - 22:00		0.28				
21-Jul-22	06:00 - 14:00		0.33	22-Jul-22	06:00 - 14:00		0.31	23-Jul-22	06:00 - 14:00		0.32				
18-Aug-22	14:00 - 22:00		0.29	19-Aug-22	14:00 - 22:00		0.27	20-Aug-22	14:00 - 22:00		0.28				
27-Sep-22	06:00 - 14:00		0.33	28-Sep-22	06:00 - 14:00		0.31	29-Sep-22	06:00 - 14:00		0.29				

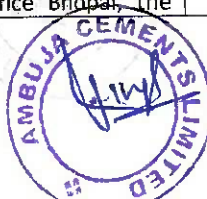


Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011

x	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.	A well established Environmental Management Division (EMD) with suitable qualified personnel is in place. Head of environmental management cell directly report to the Works Head of the organization. EMD organization chart is enclosed as under <div><div>Organization Chart</div><div><div>Unit Head</div><div>Head Environment</div><div>Assistant Manager - Environment</div><div>vacant</div></div></div>
xi	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 of Environment and Forests and its Regional Office located at Bhopal.	Details of capital and recurring expenditure for environmental protection measures are enclosed as under :

Expenditure Incurred in Environment Management Plan RKBA Mines			Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year April to Sept. 2022							
S.No	Particulars	Cost (In Lacs)	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)
1	Monitoring Equipments	37.08	1	GUJARAT - Kodinar						
2	Environment Laboratory	10		Water Resource Mangement & Drinking Water Projects						
3	Others (Monitoring Van, DG Sets etc.)	10		A.Water Resource Development	16.34	3.69				20.03
	Total (In Lacs INR)	57.08		B.Drinking Water Programme	6.09			3.00		9.09
B. Recurring Expenditure for the period of April 2022 to September 2022			2	Agriculture Development (Drip Irrigation, Farm Forestry & Afforestation)	8.78			75.16	111.97	195.91
S.No	Particulars	Cost (In Lacs)	3	BCI	18.65	0.10	202.35	109.49	250.83	581.42
1	Green belt development & Dust suppression	12.84	4	Krishi Vigyan Kendra (KVK) - Agriculture	4.66	85.23				89.89
2	Manpower Cost *	12.15	5	Health & Sanitation	8.11			9.14		17.25
3	House Keeping	1.19	6	Education Programme	3.71					3.71
4	Other Env. Protection (Environmental Monitoring)	1.35	7	Women / Youth Development	7.71					7.71
5	Environment Awareness *	1.43	8	Skill and Enterprunership Development Programme	25.57	28.45		25.18		79.20
	Total (In Lacs INR)	28.97	9	Integrated Community Development Programme	94.94					94.94
			10	Co-ordination & Administration Expenses	42.41					42.41
			11	Capital Expenditure						0.00
			TOTAL		236.97	117.47	202.35	221.97	362.80	1141.56
* Expenditures are Common for All the Plants & Mines.										

xii	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.	Informed vide letter 16.07.2005 and first compliance report was submitted on 26.07.2006.
xiii	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Point noted and being complied. Full support and co-operation is being extended during the visit of officers from Ministry of Environment & Forest, CPCB as well as GPCB
xiv	The project proponent shall submit six monthly reports on the status of compliance of the 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	Half yearly compliance status report is being regularly submitted to MoEF Bhopal & Central Pollution Control Board. Last submission was on 26.05.2022 vide letter No . ACL/EMD/F-16/2022/2521/90454.



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	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 Central Pollution Control Board and the State Pollution Control Board.	
xv	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	A copy of clearance letter has been sent to Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body as applicable.
xvi	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.	GPCB is the concern authority for the same.
xvii	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bhopal by e-mail.	Environmental statement is being regularly submitted to concern authority for each financial year. Last Environment Statement submitted on 07.07.2022 vide letter no. ACL/EMD/F22/2022/2595/60674 .
xviii	The project authorities should advertise at least in two local newspapers of the District or State in the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to RO Bhopal.	Point noted and complied.
7	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Point noted
8	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	All the conditions mentioned in the EC are being complied with .
9	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control Of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Gujarat and any other Court of Law relating to the subject matter.	All stipulations under Water (Prevention and Control of pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment Protection Act, 1986, Hazardous waste Rules, 1989 are being complied. Hazardous waste being stored at designated place and collection and transportation is being done by state pollution control board authorized recyclers for recycling purpose.



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Compliance Status of Environmental Clearance No. J-11015/221/2008- IA. II (M) dated 05.08.2021 issued to RKBA Limestone Mines [EC Amendment]		
1	PP must undertake plantation in this monsoon and complete the plantation in the peripheral area within the year with 3 m sampling and 2m x 2m distancing and submit the report accordingly within a year to the ministry.	The mass plantation drive was organized, saplings were planted in the Mines peripheral area. So far, a total of 12,985 trees have been planted at periphery area covered 15.505 ha and plantation drive is in progress.
2	Out of 19 pits, 13 pits are in operation. Therefore, PP must submit the mine closure plan for 6 pits which are not in operation and must submit the action taken within a year to the ministry.	There may Probability of availability of mineral in the remaining pits which may be confirmed after bore hole drilling. Hence this pits cannot be closed and closer plan cannot be submitted till mineral reserves are extracted.
3	PP said that adjacent to mining, the surrendered mine was observed in the KML file also belongs to M/s Ambuja Cements Limited so PP must take up activity to complete the plantation in the surrendered area within a year. It is assumed that the ownership is going to mine lease owner.	The land is surrendered by Ambuja Cements Ltd. And is Government Land (GAUCHAR LAND). It's a grazing land used by villagers.
4	The water should be utilized for the benefit of the nearby villagers. Suitable water quality must be maintained and utilize the same.	The Pit water is used for recharging the ground water table water quality is always well maintained and villagers also use for agriculture purpose.
5	Follow the methodology given by IBM for approving mining plan and maintain the slope as well as the benches as mentioned in the approved mining plan.	The Mine is operated by using the methodology given by IBM as per approved mining plan The mine working is systematically done as per the plan.

