

Ambuja Cement

90454

REGD. A/D

ACL/EMD/F-16/2022/2521

26.05.2022

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.

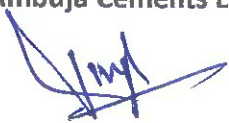
Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(October'2021 to March'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,
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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

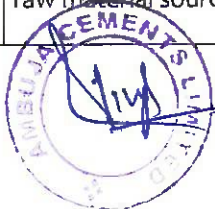
Monitoring Report

Part-I

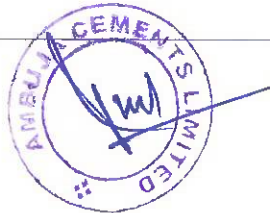
DATA SHEET

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. Ganpat Ram 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	:	<ul style="list-style-type: none">❖ 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.


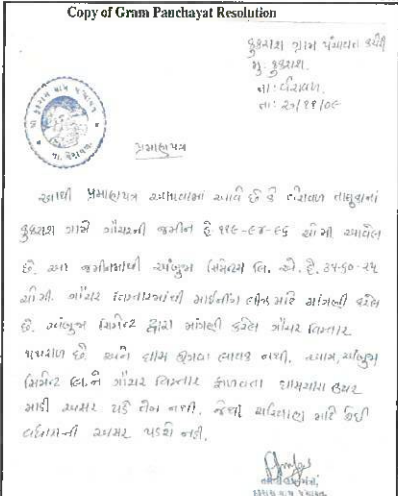
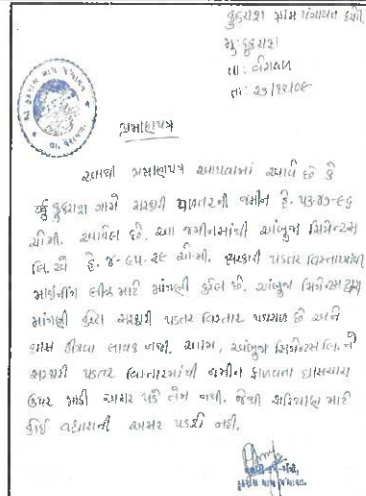
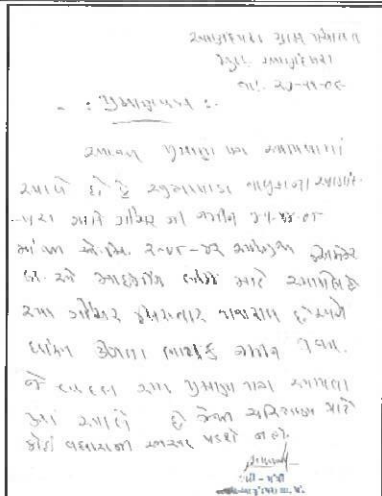
		<ul style="list-style-type: none">❖ Afforestation / Green belt development is being carried out concurrently along haul road, lease periphery and matured area as well as outside lease also (i.e. surrounding Mines office)❖ Mined-out areas will be converted to pasture land & into water reservoir.❖ Rural 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.								
Expenditure Incurred in Environment Management Plan RKBA Mines		Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year October 2021 to March 2022 (Rs. In lakhs)								
S.No	Particulars	Cost (In Lacs)	Sr.No	Programme	ACF- ALL	*Funds received through Government	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.
1	Monitoring Equipments	37.08		GUJARAT - Kothdar						
2	Environment Laboratory	10		Water Resource Mangement & Drinking Water Projects						
3	Others (Monitoring Van, DG Sets etc.)	10	1	a. Water Resource Development	50.89	10.61				61.50
	Total (In Lacs INR)	57.08		B. Drinking Water Programme	2.01	2.46		2.60	312.24	319.25
B. Recurring Expenditure for the period of October'2021 to March'2022			2	Agriculture Development/ Drip irrigation, Farm Forestry & Afforestation	29.52	1.25	10.69	116.79	160.89	319.14
S.No	Particulars	Cost (In Lacs)	3	BCI	10.23		116.58	72.93	119.00	318.64
1	Green belt development & Dust suppression	15.29	4	Krishi Vigyan Kendra (KVK) - Agriculture	14.11	162.73				196.84
2	Manpower Cost *	14.75	5	Health & Sanitation	19.30		11.24	27.64		58.18
3	House Keeping	0.92	6	Education Programme	6.91					6.91
4	Other Env. Protection (Environmental Monitoring)	1.43	7	Women / Youth Development	15.63					15.63
5	Environment Awareness *	0.50	8	Skill and Enterprunership Development Programme	30.64	29.57	20.82	15.57		106.60
	Total (In Lacs INR)	32.88	9	Integrated Community Development Programme	90.00		0.23			90.23
* Expenditures are Common for All the Plants & Mines.			10	Co-ordination & Administration Expenses	26.90					26.90
			11	Capital Expenditure	2.70					2.70
				TOTAL	708.84	215.95	179.56	245.43	502.13	1531.90
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. 11.96 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 06.11.2021 vide letter No . ACL/EMD/F-16/2021/2416/89673





**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**

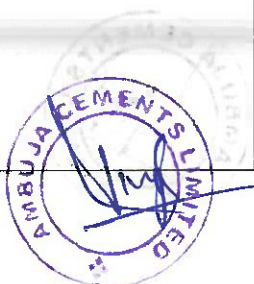
S N	Condition	Compliance Status
(A). Specific Conditions :		
I	The project proponent shall obtain Consent to Establish and Consent to Operate from the Gujarat Pollution Control Board and effectively implement all the conditions stipulated therein.	<ul style="list-style-type: none"> Consent to establish & 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
	<p align="center">Copy of Gram Panchayat Resolution</p> 	 

All the gram panchayats had been given their permissions vide their resolutions, resolutions copy of gram panchayat are given herewith.



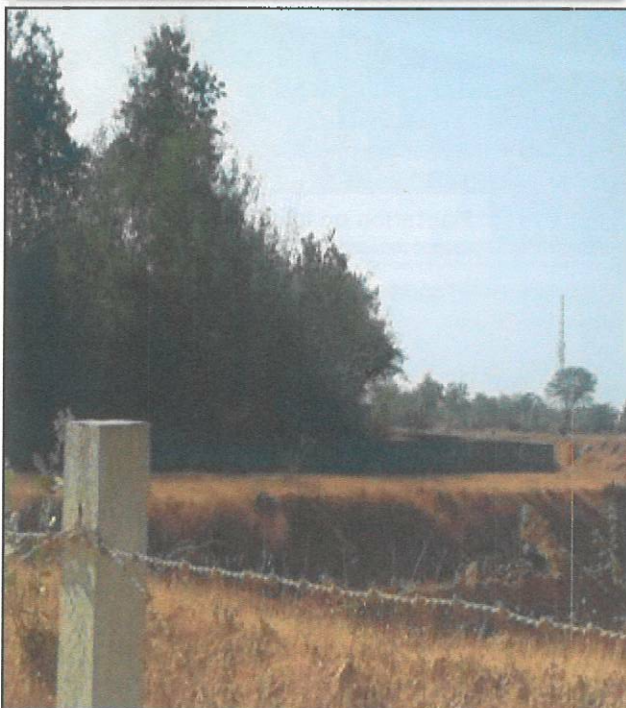
Compliance Status of Environment Clearance issued to RKBA Limestone Mines
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IV	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	<ul style="list-style-type: none"> There is no non-mineralized area within entire lease. However we are converting the exhausted pits into pasture land/grazing land. Till Sep'2021 51.7807 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'2021 is 3200 m³. The top soil has been used for developing the pasture land and green belt development.
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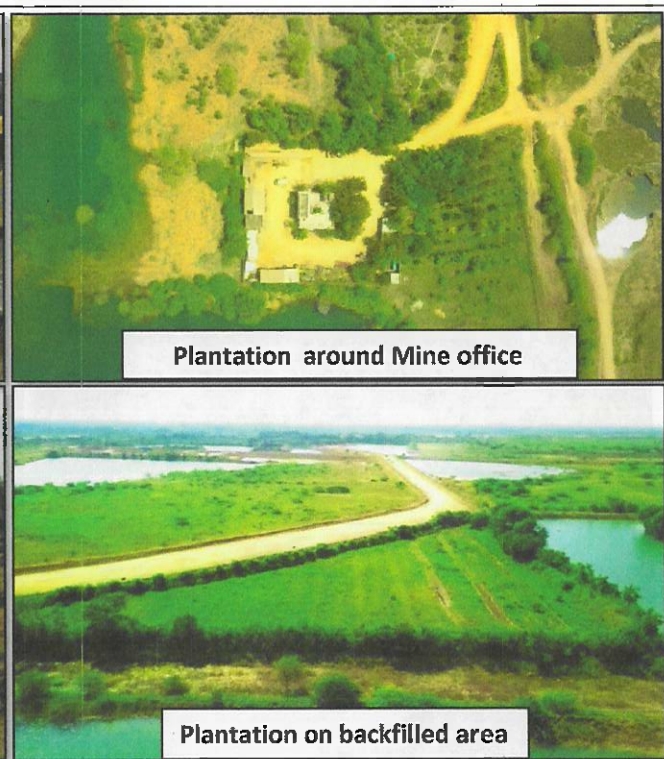
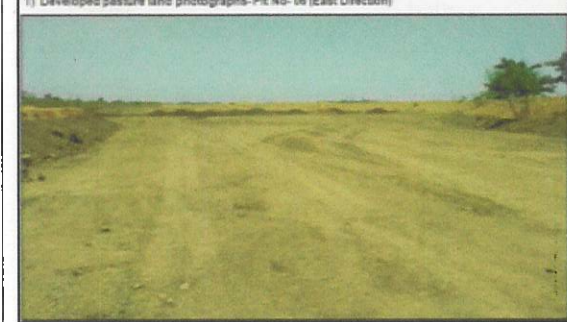
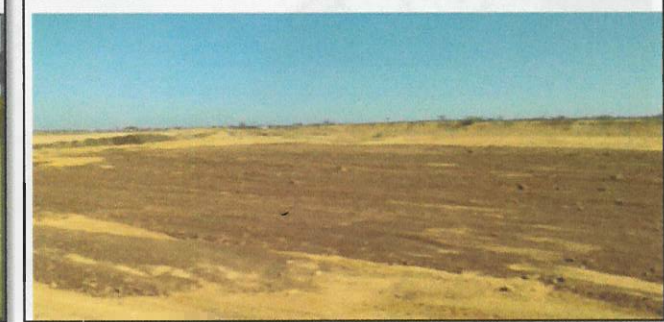


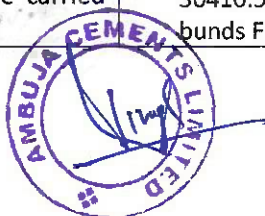
Sl. No.	Location	Area (sq. m)	Volume (m ³)	Remarks
1	Area 1	1000	1000	Top Soil
2	Area 2	2000	2000	Top Soil
3	Area 3	3000	3000	Top Soil
4	Area 4	4000	4000	Top Soil
5	Area 5	5000	5000	Top Soil
6	Area 6	6000	6000	Top Soil
7	Area 7	7000	7000	Top Soil
8	Area 8	8000	8000	Top Soil
9	Area 9	9000	9000	Top Soil
10	Area 10	10000	10000	Top Soil
11	Area 11	11000	11000	Top Soil
12	Area 12	12000	12000	Top Soil
13	Area 13	13000	13000	Top Soil
14	Area 14	14000	14000	Top Soil
15	Area 15	15000	15000	Top Soil
16	Area 16	16000	16000	Top Soil
17	Area 17	17000	17000	Top Soil
18	Area 18	18000	18000	Top Soil
19	Area 19	19000	19000	Top Soil
20	Area 20	20000	20000	Top Soil

Screenshot of Top Soil Register maintained at mines Site office




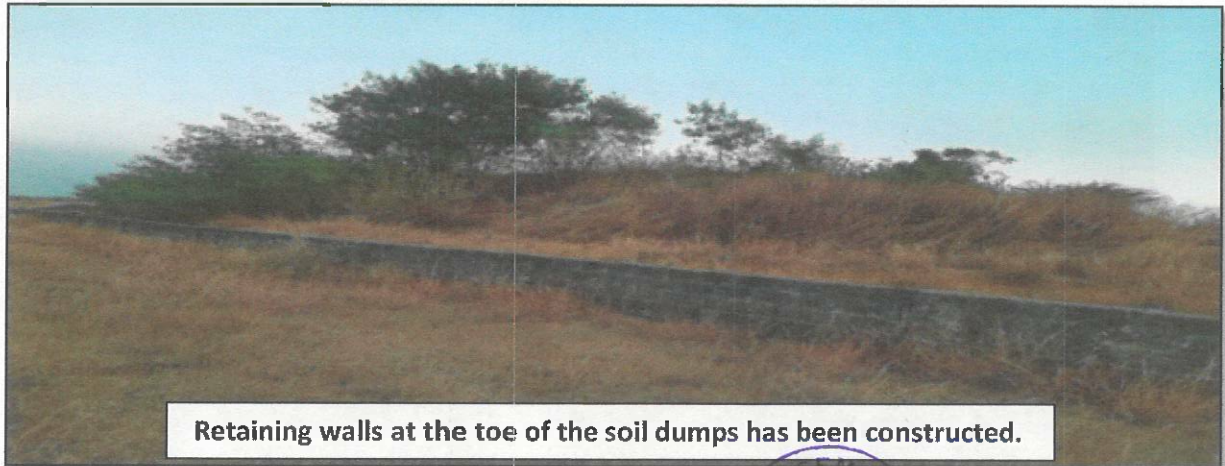


**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

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 06.11.2021 vide letter No . ACL/EMD/F-16/2021/2416/89673. Plantation Done From October2021 to March2021 is 974. Total Cumulative plantation till March'2021 is 27103.
		
(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 210.1997 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, 30410.5meter barbed wire and 29026 meter earthen bunds Fencing has been done till March'2022.



**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
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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>	

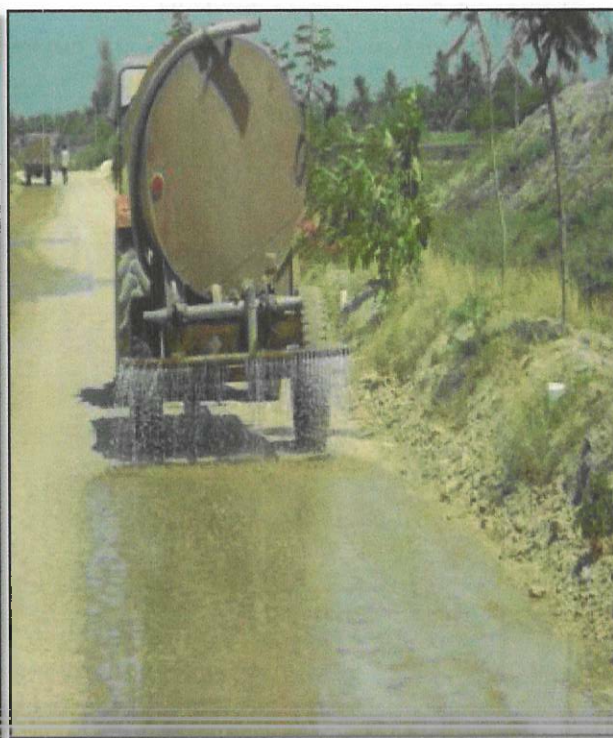
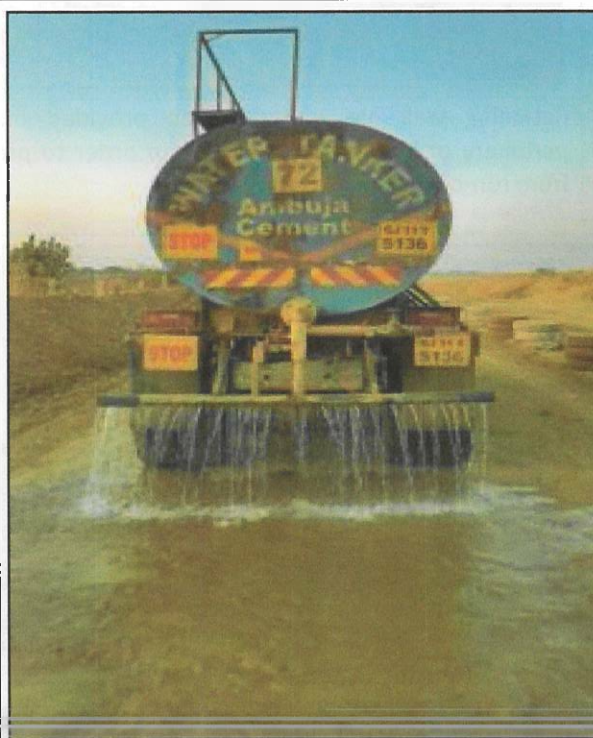


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XIII	Green belt shall be raised in an area of 21.58ha including a 7.5m wide statutory barrier all around the mining lease, roads etc, by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees 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 2021-2022(Till March'2022) is 974. Total Cumulative plantation till March'2022 is 27103 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 2021-22	Pasture land (in Ha)	Water Body (in Ha)
310.3290	210.1997	974	47.5219	3.0473

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



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Vide MoEF&CC Letter No: J-11015/221/2008-IA-II (M) dated 04.03.2011**

XV	<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>	<p>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:</p>																																																																																																																																
	<p style="text-align: center;">Ambuja Cement Foundation - Ambujanagar</p> <p style="text-align: center;">Details for programme wise expenditure for the year October 2021 to March 2022</p> <p style="text-align: right;">(Rs. In lakhs)</p> <table><tr><th>Sr.No</th><th>Programme</th><th>ACF - ACL</th><th>*Funds received through Government</th><th>** Funds from other Donors / Donor Agencies</th><th>*** People's Contribution</th><th>**** Direct Funding to Communities</th><th>Total Exp.</th></tr><tr><td></td><td>GUJARAT - Kodinar</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Water Resource Mangement & Drinking Water Projects</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>a. Water Resource Development</td><td>50.89</td><td>10.61</td><td></td><td></td><td></td><td>61.50</td></tr><tr><td></td><td>B. Drinking Water Programme</td><td>2.01</td><td>2.40</td><td></td><td>2.60</td><td>312.24</td><td>319.25</td></tr><tr><td>2</td><td>Agriculture Development(Drip irrigation, Farm Forestry & Afforestation)</td><td>29.52</td><td>1.25</td><td>10.69</td><td>116.79</td><td>160.89</td><td>319.14</td></tr><tr><td>3</td><td>BCI</td><td>10.23</td><td></td><td>135.58</td><td>72.83</td><td>119.00</td><td>338.64</td></tr><tr><td>4</td><td>Krishi Vigyan Kendra (KVK) - Agriculture</td><td>14.11</td><td>182.73</td><td></td><td></td><td></td><td>196.84</td></tr><tr><td>5</td><td>Health & Sanitation</td><td>19.30</td><td></td><td>11.24</td><td>27.64</td><td></td><td>58.18</td></tr><tr><td>6</td><td>Education Programme</td><td>6.91</td><td></td><td></td><td></td><td></td><td>6.91</td></tr><tr><td>7</td><td>Women / Youth Development</td><td>15.63</td><td></td><td></td><td></td><td></td><td>15.63</td></tr><tr><td>8</td><td>Skill and Enterprunership Development Programme</td><td>30.64</td><td>29.57</td><td>20.82</td><td>25.57</td><td></td><td>106.60</td></tr><tr><td>9</td><td>Integrated Community Development Programme</td><td>90.00</td><td></td><td>0.23</td><td></td><td></td><td>90.23</td></tr><tr><td>10</td><td>Co-ordination & Administration Expenses</td><td>26.90</td><td></td><td></td><td></td><td></td><td>26.90</td></tr><tr><td>11</td><td>Capital Expenditure</td><td>2.70</td><td></td><td></td><td></td><td></td><td>2.70</td></tr><tr><td></td><td>TOTAL</td><td>298.83</td><td>215.95</td><td>179.56</td><td>245.43</td><td>592.13</td><td>1531.90</td></tr></table>		Sr.No	Programme	ACF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.		GUJARAT - Kodinar								Water Resource Mangement & Drinking Water Projects							1	a. Water Resource Development	50.89	10.61				61.50		B. Drinking Water Programme	2.01	2.40		2.60	312.24	319.25	2	Agriculture Development(Drip irrigation, Farm Forestry & Afforestation)	29.52	1.25	10.69	116.79	160.89	319.14	3	BCI	10.23		135.58	72.83	119.00	338.64	4	Krishi Vigyan Kendra (KVK) - Agriculture	14.11	182.73				196.84	5	Health & Sanitation	19.30		11.24	27.64		58.18	6	Education Programme	6.91					6.91	7	Women / Youth Development	15.63					15.63	8	Skill and Enterprunership Development Programme	30.64	29.57	20.82	25.57		106.60	9	Integrated Community Development Programme	90.00		0.23			90.23	10	Co-ordination & Administration Expenses	26.90					26.90	11	Capital Expenditure	2.70					2.70		TOTAL	298.83	215.95	179.56	245.43	592.13	1531.90
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XVI	<p>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.</p>	<ul style="list-style-type: none">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. <div><p>49th ACL/EMD/F-10/2022/2505/427 18.05.2022</p><p>The Director, Ministry of Environment, Forest and Climate Change (MoEF&CC), 3rd Floor, Purana Qila, Indira Park, New Delhi 110002 Regional Office, Western Region, "Mahatma Park" Bhopal Link Road No. 1, Near Shakti Nagar, Bhopal - 462018, M.P.</p><p>(Subject: Regarding submission of Ground Water level & quality monitoring Report of Rampura Kuthra Shakti and Anandnagar (BGRAL) Limestone Mine.</p><p>Ref No: 1. FC -11150210008 -14 (M) dated 04.03.2011 2. COM/ANCO/MS/0010/0207/141 dated 23.04.2009</p><p>Dear Sir,</p><p>This is in reference to above mentioned letter to our Rampura Kuthra Shakti and Anandnagar Limestone Mine Project of M/s.Ambuja Cement Limited, located at village/PO Rampura, Kuthra, Shakti and Anandnagar, Tehsil Viratola and Subhaga, District GN- Sonbhadra, Gujarat.</p><p>As per the Environmental Clearance (EC) Specific condition No. 10(A), 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).</p><p>Kindly acknowledge the receipt of the same.</p><p>Thanking You, Yours Faithfully, For Ambuja Cement Limited</p><p>Deviendra Singh Chaudhary Head - Environment</p><p>Encl. As above CC:</p><ol style="list-style-type: none">The Ministry of Environment, Forest and Climate Change (MoEF&CC), 3rd Floor, Purana Qila, Indira Park, New Delhi 110002Regional Director, Central Ground Water Board, West Central Region, Scheme Highway Building, Sher-Aam Tola, Anandnagar, Gujarat Pin - 388027Central Ground Water Authority, Janagraha House, 18/11, Main Singh Road Area, New Delhi, Delhi 110015The Member Secretary, Gujarat Pollution Control Board, Pavayasan Bhawan, Sector 19-A, Gandhinagar - 382016The Regional Officer, Gujarat Pollution Control Board, Opp. Anand's Church, Shakti Road, Junagadh - 362001<p>Page 01 of 01 To: Mr. A. K. Jadhav, J. D. (G) Bhopal, Bhopal, M.P. 462002 Phone: 0672-2212711 Fax: 0672-2212711</p><p>Ambuja Cement Limited 6300, Ambujanagar Gujarat - 388027 Phone: 079-2212711 Fax: 079-2212711</p><p>Company Office: Bhopal, Gujarat Phone: 079-2212711 Fax: 079-2212711</p></div>																																																																																																																																

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Ambuja Cement

18.05.2022

AC/EMD/F-10/2022/2505

The Director,
Ministry of Environment, Forest and Climate Change (MoEF&CC),
Regional Office, Western Region,
"Vandhya Pragatya Bhawan",
Lok Prasth 1, Road Chauraha Nagpur,
Bhopal - 462018, M.P.

(In Reply) Regarding: Submission of Ground Water level & quality monitoring Report of Rampura Kothinar (Shakti) and Anandpur (BWA) Limestone Mine.

Ref No: 1. EC-J-11015/221/2008-IA-II (M) dated 04.03.2011
2. GOA/ANCO/MOEF/2022/7541 dated 23.04.2022

Dear Sir,

This is in reference to above mentioned letter to our Rampura Kothinar (Shakti) and Anandpur Limestone Mine Project of M/s. Ambuja Cement Limited, located at village Rampura, Kothinar, District Anandpur, Tehsil Virehar and Subpalsda, District Gid-Sonwath, Gujarat.

As per the Environmental Clearance (EC) issued on 04.03.2011, we are pleased to inform Ground Water Level & Ground Water Quality Monitoring Report for the year 2021-22 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 Chaudhary
Head - Environment

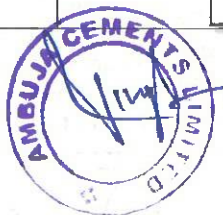
Encl: As above

CC:

1. The Ministry of Environment, Forest and Climate Change (MoEF&CC), 3rd Floor, Plot No. 10, Indira Park, New Delhi-110003
2. Regional Director, Central Ground Water Board, West Central Region, Scheme Nayagan Building, Shah Alam Tola, Ahmedabad-380022
3. Central Ground Water Authority, Jangpore House, 18/11, Main Singh Road Area, New Delhi, Delhi-110001
4. The Member Secretary, Gujarat Pollution Control Board, Paryavasan Bhawan, Sector 19 A, Gandhinagar - 382010
5. The Regional Officer, Gujarat Pollution Control Board, Opp. Anna's Church, Station Road, Jamnagar - 362001

By: *(Signature)* Ambuja Cement Limited
For: *(Signature)* Head - Environment
Date: 18.05.2022





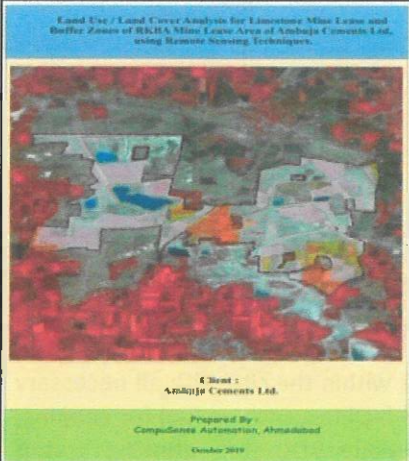
Copy to: *(Signature)* Regional Office, Western Region, MoEF&CC, Bhopal



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
Source Village Taluka District		Desirable	Permissible	W3	W7	W8	W10	W13	W15A	Piezometer 2
				RAMPARA	RAMPARA	RAMPARA	RAMPARA	RAMPARA	RAMPARA	RKBA Mines
				VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL	VERAVAL
				GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH
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	2759	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	98	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	0.46
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.										

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	<p>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.</p>	<p>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 :</p> 
XX	<p>Drilling and blasting operation shall not be carried out.</p>	<p>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.</p>
		
XXI	<p>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.</p>	<p>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</p>
		
XXII	<p>Land oustees and land losers/affected people should be rehabilitated as per the National Policy on</p>	<p>Compensation to land looser is being provided almost double of the standard rate of Gujrat Govt.</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

	Resettlement and Rehabilitation of project Affected Families (NPRR)/State Government norms.	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. 2010057 (Mines)

FORM-M
(See Rule 29 D)

Notice of initial/periodical medical examination under rule 29 B

No. _____ Date: _____

Sr/Smt. **SATISA MOHANTY** Nature of employment **GEOLOGIST** serial number from B register 41. Son/Daughter/Wife of **UTKALRANJAN MOHANTY** is hereby notified the under Rule 29B of the Mines Rules, 1955 before _____ (give date) at **AMBUJA HOSPITAL** (give time) _____ (given)

Sr/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**

Sr/Smt. **SATISA MOHANTY** may further note that he/she should bring with him/her three 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
MINES MANAGER Mine
 Ambuja Hospital, Ambujanagar,
 Dist. Sambalpur, Odisha-751005

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. 2010057 (Mines)

FORM - O
(See Rule 29 (C) and 29 L)

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


Certificate No. _____

Certificate that Sr/Smt. **SATISA MOHANTY** employed as **GEOLOGIST** in **RKBA LIMESTONE MINES**, Form No 41 has been examined for an initial/periodical medical examination. He/She appears for **208.07.1998** Years of age. The findings of the examining authority are given in the attached sheet. It is considered that Sr/Smt. **SATISA MOHANTY** is medically fit for any employment in mine.

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

(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 _____

He/She may be permitted/not permitted to _____ her duties during this period


 Name and Designation in Block Letters: _____
 Date: _____
 Signature of the Examining Authority: _____

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. 2010057 (Mines)

REPORT OF THE EXAMINING AUTHORITY
(To be filed in for every medical examination whether initial or periodical one-examination or after resumption 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

2. Height: **74** cms. 3. Weight: **97** Kgs

3. Eyes: (i) Visual acuity/Distant vision (with or without glasses) **20/20 - 20/20 glasses**
 Right eye **20/20** Left eye **20/20**
 (ii) any organic disease of eye **OK**
 (iii) night blindness **OK**
 (iv) colour blindness **OK**
 (v) Squint **OK**
 (To be tested in special cases)

4. Ears: (i) Hearing: Right ear **1000**
 Left ear **1000**
 (ii) any organic disease **No**

5. Respiratory system: Chest measurement:
 (i) after full inspiration **104** cms.
 (ii) after full expiration **103** cms.

6. Circulatory system: Blood pressure **105/65 mm Hg**
 Pulse **80/min**

7. Abdomen: "endless" _____ Liver _____
 Spleen _____ Testis _____

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.
XXVII	The critical parameters such as RSPM (Particulate matter with size less than 10 μ m i.e., PM ₁₀), NOX in the ambient air within the impact zone, shall be monitored periodically, Further, quality of water quality monitoring is being uploaded on the	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

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

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.

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, PM2.5, SO2, NOx and CO are enclosed as under.

Ambient Air Quality Monitoring Results															
(October 2021 - March 2022)															
Month	Working Place					Mines Office					Kukaras Village				
	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO
Unit >	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)
Oct-21	22.60	45.60	12.80	14.20	BDL	28.40	42.50	13.50	12.60	BDL	26.40	43.70	12.60	13.50	BDL
	30.60	51.30	12.60	14.20	BDL	29.70	52.60	13.80	13.60	BDL	25.30	48.70	10.50	12.80	BDL
Nov-21	27.80	40.20	14.60	16.80	BDL	22.30	38.70	11.20	14.70	BDL	21.50	39.80	10.70	11.80	BDL
	35.60	45.40	14.60	15.30	BDL	33.40	48.70	15.80	12.70	BDL	30.70	42.10	12.40	10.80	BDL
Dec-21	30.10	40.90	12.40	16.80	BDL	28.70	41.60	13.40	14.60	BDL	29.40	45.90	10.90	15.40	BDL
	32.90	46.70	12.40	16.40	BDL	34.80	42.80	16.70	14.80	BDL	36.70	40.60	17.40	13.50	BDL
Jan-22	26.30	42.30	13.90	19.40	BDL	27.50	40.50	11.50	18.20	BDL	30.20	41.90	10.80	20.30	BDL
	26.10	39.40	13.40	18.40	BDL	30.80	41.20	11.60	21.30	BDL	32.40	40.60	10.80	22.90	BDL
Feb-22	21.60	40.60	10.60	14.60	BDL	28.90	42.60	12.50	12.50	BDL	30.60	45.80	13.60	15.70	BDL
	30.40	41.60	12.60	20.60	BDL	31.90	40.60	13.50	21.90	BDL	28.70	39.80	18.70	18.70	BDL
Mar-22	30.60	42.80	9.80	12.60	BDL	32.60	40.90	12.60	13.90	BDL	38.70	42.60	13.80	18.70	BDL
	30.90	40.60	10.60	10.60	BDL	31.60	42.90	11.90	11.90	BDL	28.70	30.90	12.80	12.80	BDL
Minimum	21.6	39.4	9.8	10.6	BDL	22.3	38.7	11.2	11.9	BDL	21.5	30.9	10.5	10.8	BDL
Maximum	35.6	51.3	14.6	20.6	BDL	34.8	52.6	16.7	21.9	BDL	38.7	48.7	18.7	22.9	BDL
Average	28.8	43.1	12.5	15.8	BDL	30.1	43.0	13.2	15.2	BDL	29.9	41.9	12.9	15.6	BDL
Month	Anandapara Village					Bhetali Village					Rampara Village				
	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO
Unit >	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)
Oct-21	25.90	48.70	11.80	15.40	BDL	30.80	49.80	10.60	11.80	BDL	28.70	46.30	12.50	12.50	BDL
	28.70	46.90	11.70	15.40	BDL	26.10	43.50	13.60	11.20	BDL	28.90	50.70	14.20	10.90	BDL
Nov-21	30.70	41.20	9.10	10.30	BDL	25.40	43.50	8.60	11.10	BDL	23.90	42.30	14.60	9.70	BDL
	32.60	40.30	10.70	14.20	BDL	21.50	37.40	8.90	16.50	BDL	35.70	45.80	18.70	12.30	BDL
Dec-21	22.40	46.80	9.80	13.50	BDL	24.60	40.60	13.40	13.40	BDL	25.80	38.70	15.60	12.40	BDL
	26.80	47.20	16.40	15.70	BDL	29.70	38.70	10.00	18.90	BDL	35.80	39.70	12.20	14.20	BDL
Jan-22	33.10	41.60	14.50	22.40	BDL	32.20	36.90	16.00	23.70	BDL	29.50	38.40	15.40	17.60	BDL
	33.00	37.30	15.40	20.70	BDL	28.40	41.90	12.10	18.40	BDL	26.40	40.50	11.90	13.50	BDL
Feb-22	32.40	39.80	14.80	14.90	BDL	27.60	38.70	11.60	11.60	BDL	25.40	45.80	17.60	13.50	BDL
	29.40	38.70	17.60	14.60	BDL	24.60	34.50	14.90	13.50	BDL	25.80	48.70	19.80	18.40	BDL
Mar-22	34.60	38.70	14.90	14.60	BDL	28.40	39.70	10.60	11.90	BDL	29.10	42.60	11.90	10.90	BDL
	29.70	38.70	14.60	14.70	BDL	34.60	34.60	10.70	17.60	BDL	33.60	32.90	18.40	12.50	BDL
Minimum	22.4	37.3	9.1	10.3	BDL	21.5	34.5	8.6	11.1	BDL	23.9	32.9	11.9	9.7	BDL
Maximum	34.6	48.7	17.6	22.4	BDL	34.6	49.8	16.0	23.7	BDL	35.8	50.7	19.8	18.4	BDL
Average	29.9	42.2	13.4	15.5	BDL	27.8	40.0	11.8	15.0	BDL	29.1	42.7	15.2	13.2	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.



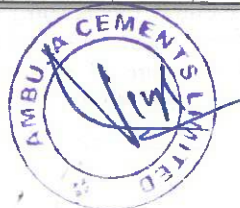
**Compliance Status of Environment Clearance issued to RKBA Limestone Mines
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B. General conditions		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	We are following 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., PM10) and NOx 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 , NOx 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., PM10) & NOx 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 06.11.2021 vide letter No . ACL/EMD/F-16/2021/2416/89673.
(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

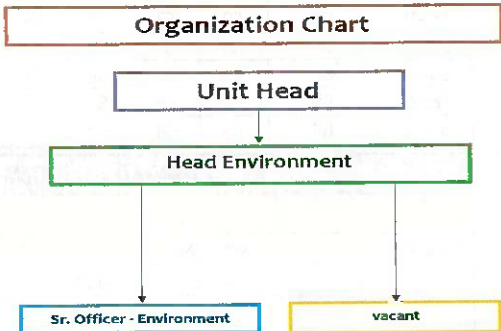


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	equipment and well planned maintenance system.Ambient noise monitoring as well as HEMM noise monitoring report is enclosed for Oct'2021 to March'2022as under (a) & (b) :														
(a)	Ambient Noise Level Monitoring - RKBA Limestone Mines (October 2021 - March 2022)														
	Noise Levels in dB(A)														
Month	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)	
Oct-21	65	57	61	54	58	52	49	36	47	39	51	40	45	39	
Nov-21	68	62	67	59	58	55	47	38	47	38	49	39	46	37	
Dec-21	67	63	66	60	52	49	47	44	51	46	48	44	52	49	
Jan-22	68	64	59	56	54	52	55	50	50	47	50	40	52	47	
Feb-22	68	62	65	63	55	53	53	51	55	52	54	53	58	52	
Mar-22	69	65	68	60	60	53	54	52	57	51	58	53	56	51	
(b)	Noise Level of HEMM RKBA Limestone Mines (October 2021 - March 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.						
		Leq	Leq		Leq	Leq		Leq	Leq						
Oct-21	While dozing the material	68	64	While loading to tipper	69	66	While mining	67	65						
Nov-21		68	64		71	65		69	63						
Dec-21		67	61		64	68		70	67						
Jan-22		68	61		71	61		74	69						
Feb-22		64	59		70	64		67	63						
Mar-22		69	66		70	66		70	65						
(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 Oct'2021 to March'2022are enclosed as under :							
	Air Borne Dust Survey - (October 2021 - March 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-Oct-21	14:00 - 22:00	Inside Cabin	0.30	12-Oct-21	14:00 - 22:00	Inside Cabin	0.27	13-Oct-21	14:00 - 22:00	Inside Cabin	0.25				
01-Nov-21	06:00 - 14:00		0.32	02-Nov-21	06:00 - 14:00		0.28	03-Nov-21	06:00 - 14:00		0.31				
06-Dec-21	14:00 - 22:00		0.36	07-Dec-21	14:00 - 22:00		0.33	08-Dec-21	14:00 - 22:00		0.35				
11-Jan-22	06:00 - 14:00		0.29	12-Jan-22	06:00 - 14:00		0.26	13-Jan-22	06:00 - 14:00		0.24				
21-Feb-22	14:00 - 22:00		0.36	22-Feb-22	14:00 - 22:00		0.33	23-Feb-22	14:00 - 22:00		0.31				
10-Mar-22	06:00 - 14:00		0.38	11-Mar-22	06:00 - 14:00		0.32	12-Mar-22	06:00 - 14:00		0.29				



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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.	<p>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</p> <div style="text-align: center;">  <pre> graph TD A[Unit Head] --> B[Head Environment] B --> C[Sr. Officer - Environment] B --> D[vacant] </pre> </div>
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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 :
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Expenditure incurred in Environment Management Plan RKBA Mines			Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year October 2021 to March 2022 (Rs. In lakhs)							
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.
1	Monitoring Equipments	37.08		GUJARAT - Kedar						
2	Environment Laboratory	10		Water Resource Management & Drinking Water Projects						
3	Others (Monitoring Van, DG Sets etc.)	10		a.Water Resource Development	50.89	10.61				61.50
Total (In Lacs INR)		57.08		b. Drinking Water Programme	2.01	2.40		2.60	312.24	319.25
B. Recurring Expenditure for the period of October 2021 to March 2022				Agriculture Development Drip Irrigation, Farm Forestry & (Afforestation)	29.52	1.25	10.69	116.79	160.89	319.14
1	Green belt development & Dust suppression	15.29	3	BCI	10.23		136.58	72.83	119.00	338.64
2	Manpower Cost *	14.75	4	Krishi Vigyan Kendra (KVK) - Agriculture	14.11	182.73				196.84
3	House Keeping	0.92	5	Health & Sanitation	19.30		11.24	27.84		58.18
4	Other Env. Protection (Environmental Monitoring)	1.43	6	Education Programme	6.91					6.91
5	Environment Awareness *	0.50	7	Women / Youth Development	15.63					15.63
Total (In Lacs INR)		32.88	8	Skill and Enterprunership Development Programme	30.64	29.57	20.82	25.57		106.60
			9	Integrated Community Development Programme	90.00		0.23			90.23
			10	Co-ordination & Administration Expenses	26.90					26.90
			11	Capital Expenditure	2.70					2.70
			TOTAL		298.83	215.95	179.56	245.43	592.13	1531.90
* Expenditures are Common for All the Plants & Mines.										

* 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 06.11.2021 vide letter No . ACL/EMD/F-16/2021/2416/89673.



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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 14.09.2021 vide letter no. ACL/EMD/F22/2021/2385/89488 .
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.

