

Nov-24/21

REGD. A/D

ACL/EMD/F-16/2024/ 2730

Date: November 20, 2024

To,

**The Deputy Director general of forest (C),**  
Ministry of Environment, Forest and Climate Change (MoEF&CC),  
Integrated Regional Office, Gandhinagar, A-Wing – 407 & 409,  
"Aranya Bhavan", Near CH-3 circle, Sector-10A,  
**Gandhinagar – 382010(Gujarat)**

**Sub.:** Half Yearly Compliance Status Report of Environmental Clearance of **Singsar Limestone Mines.**

**Ref.:** Environmental Clearance No. J-11015/273/2007- IA. II (M) dated 12.05.2010

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(April'2024 to September'2024)** of Environmental Clearance No. J-11015/273/2007-IA.II (M) dated 12.05.2010 granted by MoEF&CC to **Singsar Limestone Mines** of Ambuja Cements Ltd., located at village – Singsar, Thordi & Barevala of Taluka - 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)** Parivesh Bhawan, 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.

# MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment, Forest and Climate Change

Integrated Regional Office (Guj.), Gandhinagar.

Monitoring Report

Part-I

## DATA SHEET

01	Project type	:	Open Cast (Limestone) Mining
02	Name of the project	:	<b>Singsar Limestone Mining Project</b>
03	Clearance letter(s) / OM no. and date	:	J-11015/273/2007-IA.II (M), Dated 12.05.2010
04	Location	:	
	a) District(s)	:	Gir Somnath
	b) State(s)	:	Gujarat
	c) Latitude	:	20°47'38" to 20°50'01" N
	d) Longitude	:	70°35'53" to 70°38'20" E
05	Address for correspondence	:	
	a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers).	:	Sh. Devendra Singh Chauhan (Head - Environment) Ambuja Cements Ltd. PO Ambujanagar, Taluka: Kodinar, District: Gir Somnath (Gujarat). <i>Pin.: 362715</i> , Tel: 02795-237011, Fax: 02795 - 220328/232032
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	:	Sh. Jitendra Kumawat Manager (Mines) Ambuja Cements Ltd, PO: Ambujanagar - 362715 Taluka: Kodinar, District: Gir Somnath (Gujarat). Tel: 02795 - 232064, Fax: 02795 - 220328/232032
06	Salient features	:	
	a) of the project	:	<b>Singsar Limestone Mining Lease</b> is located at a distance of about <b>5.8 Kms</b> from the Cement Plants located at Ambujanagar.
	b) of the environmental management plans	:	<ul style="list-style-type: none"> <li>❖ Mining operations doesn't involve drilling &amp; blasting. Limestone excavation is being carried out by environment friendly Surface Miner supported by ripper dozer.</li> <li>❖ Regular monitoring of environmental parameters is undertaken as per the norms of MoEF&amp;CC and IBM.</li> <li>❖ Preventive maintenance of deployed HEMM is undertaken regularly.</li> <li>❖ Dust suppression by water sprinkling on haul roads are being done regularly in working area.</li> <li>❖ Afforestation / Green belt development is being done a long-haul road and lease periphery.</li> <li>❖ Mined-out areas will be converted to pastureland &amp; also converted into water reservoir as per approved mining plan.</li> <li>❖ Rural Development and Socio-economic activities are being undertaken in the project buffer zone area.</li> </ul>
07	Breakup of the project area.	:	
	a) Submergence area (forest & non-forest)	:	Nil
	b) Others	:	<b>728.1156 ha</b> (Government waste land, Gauchar land & Private land)
08	Breakup of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan.	:	Not applicable
	a) SC, ST / Adivasis	:	Not applicable
	b) Others	:	Not applicable





09	Financial details		
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference.	:	<b>Project Cost: Rs.103 Cr</b> 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.	:	Please refer
Expenditure incurred in Environment Management Plant - Singar Mines		Ambuja Cement Foundation - Ambujanagar	
A. Capital Investment For Environmental Monitoring :		Details for programme wise expenditure for the year April to Sept. 2024	
Sr. No.	Particulars	Cost (in lacs)	(Rs. in lakhs)
1	Monitoring Equipments	40.14	
2	Environment Laboratory	15.38	
3	Others (Monitoring Van, DG Sets, etc.)	10.00	
	TOTAL (in lacs INR)		
B. Requiring Expenditure For The Period Of April'24 to September'24			
Sr. No.	Particulars	Cost (in lacs)	
1	Greenbelt Development & Dust Suppression	32.68	
2	Manpower Cost*	6.23	
3	House Keeping	3.00	
4	Other Env. Protection (Environment Monitoring)	3.04	
5	Environment Awareness *	1.00	
	TOTAL (in lacs INR)	45.95	
* Expenditure are common for All the Plant & Mines			
c)	Benefit cost ratio / Internal rate of return and the year of assessment.	:	No separate assessment made, as it is an integral part of the raw material source for the cement plants at Ambujanagar.
d)	Whether (c) includes the cost of environmental management as shown in the above.	:	Yes
e)	Actual expenditure incurred on the project so far.	:	18.65 Cr.
f)	Actual expenditure incurred on the environmental management plans so far.	:	Rs.9.8435 Cr.
10	Forest land requirement.	:	
a)	The status of approval for diversion of forest land for non-forestry use	:	The Project area dose not comprise of any forest land hence applicable.
b)	The status of clearing felling	:	Not applicable
c)	The status of compensatory afforestation, if any	:	Not applicable
d)	Comments on the viability & sustainability of 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 of reservoir, approach roads), if any with quantitative information.	:	Not applicable
12	Status of construction	:	
a)	Date of commencement (Actual and / or planned)	:	February 2012
b)	Date of completion (Actual and / or planned).	:	Not applicable. As it is ongoing captive mining Project for cement plant located at Ambujanagar.
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.	:	12.10.10 to 13.10.10 by Dr. A. Mehrotra MoEFCC , Regional Office, Bhopal
	b) Date of site visit for this monitoring report	:	12.10.10 to 13.10.10
15	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits)	:	<ul style="list-style-type: none"> <li>Half yearly compliance status report is being regularly submitted and last submission was on dated 15.05.2024 vide letter ACL/EMD/F-16/2024/2660/May-24/415/2</li> </ul>

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**Compliance Status of Environment Clearance issued to Singar Limestone Mines  
Vide MoEF&CC Letter No: J-11015/273/2007-IA. II (M) dated 12th May 2010**

S N	Condition	Compliance Status
i	The project proponent shall obtain consent to establish and consent to operate from the Gujarat State Pollution Control Board and effectively Implement all the conditions stipulated therein.	<ul style="list-style-type: none"> <li>Consent to establish &amp; Consent to operate has been granted by Gujarat Pollution Control Board vide CTE No. 39140 dated 29.10.2010, vide letter no. GPCB/ID29262/CTE/CCA-NG/288/62147 &amp; CCA No.AWH-109029 dated 16.07.2020, vide letter no. GPCB/ID-29262/CCA/JNG-288(3)/566821, Valid up to 15/07/2025 respectively. All the stipulated conditions are being effectively complied.</li> </ul>
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"> <li>Point noted and being complied. The revenue land on which mining is being done has been converted into non-agricultural use from State Land use dept. Government of Gujarat.</li> </ul>
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"> <li>Industries and Mines Dept. Govt. of Gujarat have granted lease grant order vide order no. MCR-112000-CHH-1 dated 18.10.2011.</li> </ul>
iv	The project proponent shall develop alternate grazing land/fodder plots in the non-mineralized area for use of grazing land.	<ul style="list-style-type: none"> <li>Pastureland will be developed outside mine lease area, on getting clearance from various authorities.</li> </ul>
v	The mine working shall be restricted to one meter above pre-monsoon ground water table level and without resorting to any pumping of groundwater.	<ul style="list-style-type: none"> <li>Mining is being done above pre-monsoon ground water table. No pumping of ground water during mining is carried out.</li> </ul>
vi	No pumping of groundwater shall be done for any purpose in the mine lease area.	<ul style="list-style-type: none"> <li>No pumping of ground water in the mine lease area done till date.</li> </ul>
vii	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	<ul style="list-style-type: none"> <li>It is being ensured that during mining operations that the natural water course will not be obstructed by any mining activity.</li> </ul>
viii	The project proponent shall effectively implement the conditions made by the Chief Wildlife Warden and Principal Chief Conservator of Forests; Gandhinagar vide their letter No.WLP/325/32/A/141-42/2009-10 dated 27.05.2009.	<p>Compliance Status is as under.</p> <ul style="list-style-type: none"> <li>Mining is being done using eco-friendly, blast free Surface Miner Machine.</li> <li>Regular water sprinkling is being done in mining area and roads.</li> <li>Parameter of air and water are being maintained within prescribed norms.</li> <li>Development of the Green belt is under progress in periphery of lease area with respect to approved mine plan.</li> <li>Development of Appropriate parapet bund is under progress around mining pits as per mining plan.</li> <li>Mines will be suitably reclaimed as per mining plan.</li> </ul>
ix	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation plantation and green belt development.	<ul style="list-style-type: none"> <li>A very thin layer of topsoil is available. Generated topsoil is being stacked separately and systematically in the earmarked site with appropriate measures. Roadside bunds are made from poor grade material. Topsoil is used for land reclamation plantation and greenbelt development.</li> </ul>



**TOP SOIL IS USED FOR GREENBELT AND PASTURE LAND DEVELOPMENT**



**Compliance Status of Environment Clearance issued to Singar Limestone Mines  
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x	<p>Catch drains and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment directly into the agricultural fields, rivers and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly de-silted particularly after the monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for the mine pit to prevent run off of water and flow of sediments directly into the agricultural field's rivers and other water bodies and sump capacity should be designed Keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.</p>	<ul style="list-style-type: none"> <li>• Mining Pits are interconnected with each other and excess water from one pit passes to bigger pits and at no time all pits are completely filled so excess water goes to nallah. However necessary arrangements are made to cater the situation and proper catch drains with siltation ponds are made.</li> </ul>
xii	<p>The entire excavated area of 650.94ha left unfilled 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"> <li>• Excavated area is being converted into water bodies as per approved mining plan from IBM.</li> <li>• 420.0-meter brick wall and 1275-meter barbed wire meters of Fencing has been done from <b>April'2024 to September'2024</b>.</li> <li>• Peripheral fencing work is going on along the excavated area. Total 11982.06-meter brick wall, 35030.83-meter barbed wire and 48317.9625-meter earthen bunds Fencing has been done till September'2024.</li> </ul>



**Excavated area is being converted in to water bodies as per approved mining plan**



**Barbed Wire fencing around the Excavated**







**Brick Wall Fencing around the Excavated area**





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**Vide MoEF&CC Letter No: J-11015/273/2007-IA, II (M) dated 12th May 2010**

xiii	<p>Plantation shall be raised in an area of 72.68 ha including a 7.5m wide green belt in the safety zone around the mining lease, around the waterbody, reclaimed area mine benches, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department, the density of the trees should be around 1500 plants per ha.</p>	<p>Plantation Done From during April'2024 to September'2024 is 1105 nos. Total Cumulative plantation till September'2024 is 8780 Nos.</p> <ul style="list-style-type: none"><li>Till September 2024, 2.9045 ha area is covered under plantation and green belt development. Details of greenbelt/reclamation are enclosed as <b>under</b>.</li></ul>															
	<table><tr><th colspan="5">Greenbelt &amp; Plantation Details</th></tr><tr><th>Total Lease Area (In ha)</th><th>Opened up Area (In Ha)</th><th>Plantation Area (In Ha)</th><th>Pasture land (In Ha)</th><th>Water Catchment Area (In Ha)</th></tr><tr><td>728.1156</td><td>169.8596</td><td>2.6075</td><td>16.4309</td><td>54.1287</td></tr></table>		Greenbelt & Plantation Details					Total Lease Area (In ha)	Opened up Area (In Ha)	Plantation Area (In Ha)	Pasture land (In Ha)	Water Catchment Area (In Ha)	728.1156	169.8596	2.6075	16.4309	54.1287
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xiv	<p>Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of 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.</p>	<ul style="list-style-type: none"><li>Regular water sprinkling through water tanker is in practice at mine lease area and on haul roads to control air borne dust. Ambient air quality parameters are being maintained within norms prescribed by CPCB. <b>Report is Attached in Point No. (xxix)</b></li></ul>															
xv	<p>The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional</p>	<ul style="list-style-type: none"><li>Rainwater harvesting measures to augment ground water resources in the area is being done by <b>Ambuja Cement Foundation (ACF)</b>. Glimpses about ACF &amp;</li></ul>															



**Compliance Status of Environment Clearance issued to Singar Limestone Mines  
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Director, Central Ground Water Board,		community development work done by ACF in surrounding areas are enclosed as under.																																																																																																																																	
<div><div>Ambuja Cement Foundation - Ambujasagar</div><div>Details for programme wise expenditure for the year April to Sept. 2024</div><div>(Rs. in lakhs)</div><table><thead><tr><th>S. No.</th><th>Programme</th><th>ACF - ACF</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></thead><tbody><tr><td>1</td><td>GSIAMAT - Kadihar</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Water Resource Management &amp; Drinking Water Projects</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>a. Water Resource Development</td><td>0.10</td><td></td><td>3.32</td><td></td><td></td><td>3.52</td></tr><tr><td></td><td>b. Drinking Water Programme</td><td>0.44</td><td></td><td></td><td></td><td></td><td>0.44</td></tr><tr><td>2</td><td>Agriculture Development/ Drip Irrigation, Farm Forestry &amp; Afforestation</td><td>40.10</td><td></td><td>63.17</td><td>359.93</td><td>578.18</td><td>1081.38</td></tr><tr><td>3</td><td>Better Cotton and others</td><td>5.06</td><td></td><td>238.47</td><td>223.24</td><td>245.95</td><td>772.63</td></tr><tr><td>4</td><td>Krishna Vignani Kendra (KVK) - Agriculture</td><td>2.61</td><td>105.12</td><td></td><td></td><td></td><td>107.83</td></tr><tr><td>5</td><td>Health &amp; Sanitation</td><td>13.46</td><td></td><td>0.30</td><td>8.75</td><td></td><td>22.46</td></tr><tr><td>6</td><td>Education Programme</td><td>7.94</td><td></td><td></td><td></td><td></td><td>7.94</td></tr><tr><td>7</td><td>Women / Youth Development</td><td>10.82</td><td></td><td></td><td></td><td></td><td>10.82</td></tr><tr><td>8</td><td>Skill and Entrepreneurship Development Programme</td><td>45.47</td><td>3.12</td><td>34.85</td><td>13.03</td><td></td><td>96.47</td></tr><tr><td>9</td><td>Integrated Community Development Programme</td><td>28.50</td><td></td><td></td><td></td><td></td><td>28.50</td></tr><tr><td>10</td><td>Co-ordination &amp; Administration Expenses</td><td>11.22</td><td></td><td></td><td></td><td></td><td>11.22</td></tr><tr><td>11</td><td>Capital Expenditure</td><td></td><td></td><td></td><td></td><td></td><td>0.00</td></tr><tr><td></td><td>TOTAL</td><td>166.45</td><td>107.34</td><td>400.61</td><td>444.90</td><td>824.04</td><td>2183.31</td></tr></tbody></table></div>				S. No.	Programme	ACF - ACF	*Funds received through Government	**Funds from other Donors / Donor Agencies	**People's Contribution	***Direct Funding to Communities	Total Exp.	1	GSIAMAT - Kadihar							1	Water Resource Management & Drinking Water Projects								a. Water Resource Development	0.10		3.32			3.52		b. Drinking Water Programme	0.44					0.44	2	Agriculture Development/ Drip Irrigation, Farm Forestry & Afforestation	40.10		63.17	359.93	578.18	1081.38	3	Better Cotton and others	5.06		238.47	223.24	245.95	772.63	4	Krishna Vignani Kendra (KVK) - Agriculture	2.61	105.12				107.83	5	Health & Sanitation	13.46		0.30	8.75		22.46	6	Education Programme	7.94					7.94	7	Women / Youth Development	10.82					10.82	8	Skill and Entrepreneurship Development Programme	45.47	3.12	34.85	13.03		96.47	9	Integrated Community Development Programme	28.50					28.50	10	Co-ordination & Administration Expenses	11.22					11.22	11	Capital Expenditure						0.00		TOTAL	166.45	107.34	400.61	444.90	824.04	2183.31
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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 (upto 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"><li>Complied.</li><li>Water quality testing is carried out with the help of MoEF&amp;CC certified third party laboratory as per prescribed schedule. Water levels are being recorded in 10 open wells of buffer zone and 2 piezometers are constructed in mines area core zone.</li><li>Data collected is being communicated regularly to CGWA, New Delhi, MoEF&amp;CC Integrated Regional office (SEZ) Gandhinagar, CGWB Regional Director Gandhinagar.</li><li>Ground water level &amp; quality monitoring is being done regularly by establishing a network of ground water monitoring stations, Report is submitted to MoEF&amp;CC regional office Bhopal &amp; Integrated regional office Gandhinagar, CGWA, CGWB and GPCB on yearly basis.: <b>Last submitted on dated 15.05.2024 vide letter ACL/EMD/F-16/2024/2660/May-24/415/2.</b></li></ul>	<div><div>adani</div><div>Content</div><div>आदानी फाउण्डेशन, अम्बुजासागर</div><div>ACF/EMD/F-16/2024/2660</div><div>15.05.2024</div><div>The Ministry of Environment, Forest and Climate Change, Government of India, New Delhi-110002</div><div>आदानी फाउण्डेशन, अम्बुजासागर, अम्बु</div></div>																																																																																																																																






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**Vide MoEF&CC Letter No: J-11015/273/2007-IA, II (M) dated 12th May 2010**

Jun-24		Ground Water Quality Report and Water Level of Singar Limestone Mines											
Sr.No.	Ref.No.	IS 10500:2012 (B.R)		Well Water						Piezometers			
		Desirable	Permissible	W1	W3	W4	W7	W8	W10	PIEZO NO-1	PIEZO NO-2		
	Source			SINGAR	SINGAR	SINGAR	SINGAR	SINGAR	SINGAR	SINGAR	SINGAR		
	Village			SUTRAPADA	SUTRAPADA	SUTRAPADA	SUTRAPADA	SUTRAPADA	SUTRAPADA	SUTRAPADA	SUTRAPADA		
	Taluka			GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH		
	District												
1	Color Hazen Units	5	15	2.08	2.08	2.08	2.08	2.08	2.08	3.12	3.12		
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
4	Turbidity NTU	1	5	0.33	0.37	0.4	1.12	0.42	1.28	0.76	0.36		
5	pH at 25°C	6.5 to 8.5	No Relaxation	6.11	7.91	7.99	7.77	7.74	8.07	8.07	8.21		
6	Dissolved Solids mg/l	500	2000	842	856	919	1145	782	842	858	832		
7	Total Hardness (as CaCO3) mg/l	200	600	192	200	582	455	232	240	220	182		
8	Calcium (as Ca) mg/l	75	200	38	40	175	152	48	48	45	35		
9	Magnesium (as Mg) mg/l	30	100	23	24	78	78	26	29	26	23		
10	Chlorides (as Cl) mg/l	250	1000	372	380	820	792	380	346	366	366		
11	Sulphates (as SO4) mg/l	200	400	31	32	160	174	37	39	38	31		
12	Nitrates (as NO3) mg/l	45	No Relaxation	40.12	33.07	33.07	30.19	41.51	19.94	26.99	38.26		
13	Fluorides (as F) mg/l	1	1.5	0.36	0.36	0.12	0.12	0.12	0.13	0.34	0.4		
14	Alkalinity (as CaCO3) mg/l	200	600	356	352	78	64	112	216	340	400		
	Water Level (in meter)			9.1	10.6	11.2	8.8	8.9	10.1	10.50	12.0		
xvii	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.			● No extraction of ground water has been done so far. As mines developed water requirement is met from harvested rainwater in mined out pits.									
xviii	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.			● Rainwater harvesting measures to augment ground water resources in the area is being done by <b>Ambuja Cement Foundation (ACF)</b> . Details of work done by ACF in nearby areas is enclosed as under. Descriptive Annexure is also attached as <b>Annexure-1</b>									
Ambuja Cement Foundation - Ambujanagar													
Details for programme wise expenditure for the year April to Sept. 2024													
(Rs. in lakhs)													
Sr.No	Programme	ACF - ACF	*Funds supplied through Government	** Funds from other Donors / Devar Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.						
1	GUJARAT - KODINAR												
1	Water Resource Management & Drinking Water Projects												
	a. Water Resource Development	0.10		3.40			3.50						
	b. Drinking Water Programme	0.44					0.44						
2	Agriculture Development (Drip irrigation, Farm Forestry & Afforestation)	40.30		63.37	109.30	576.16	1091.88						
3	Better Cotton and others	3.06		296.47	273.34	245.58	772.63						
4	Krush Vign Kendra (KVK) - Agriculture	2.61	105.22				107.83						
5	Health & Sanitation	13.46		6.30	8.30		22.46						
6	Education Programme	7.64					7.64						
7	Women / Youth Development	10.82					10.82						
8	Skill and Entrepreneurship Development Programme	48.47	2.12	14.95	13.80		98.47						
9	Integrated Community Development Programme	38.30					38.30						
10	Co-ordination & Administration Expenses	11.23					11.23						
11	Capital Expenditure						0.00						
	TOTAL	128.42	107.34	460.41	644.30	824.04	2143.31						
xix	Appropriate mitigative measures shall be taken to prevent pollution of Somat River, Singoda River and Saraswati River in consultation with the State Pollution Control Board.			● These rivers are far off from the project area, State Pollution Control Board will be consulted, if required.									
xx	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 Shiv P.U.C Center (Approved by : Gujarat motor vehicle department, Gujarat) is enclosed as under:									



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			<ul style="list-style-type: none"> <li>All vehicles used for transportation of raw materials are being covered properly &amp; Not Over loaded.</li> </ul>
xxi	Drilling and blasting operation shall not be carried out.		<ul style="list-style-type: none"> <li>Drilling &amp; Blast free fully mechanized <b>Surface Miner machine is being used for mining.</b></li> </ul>
xxii	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 report submitted to the Ministry of Environment and Forests and its Regional Office located at Bhopal.		<ul style="list-style-type: none"> <li>We carry out digital processing of the entire lease area once in every three year. Year 2023 report has been submitted to MoEF&amp;CC, New Delhi and its Integrated Regional Office Gandhinagar on <b>Dated 25.08.2023 vide letter no ACL/EMD/F-9/2023/2552/81796</b></li> </ul>
			
xxii i	Land oustees and land losers/affected people should be rehabilitated as per the National Policy on Resettlement and Rehabilitation of project Affected Families (NPRR).		<ul style="list-style-type: none"> <li>There is no permanent structure within the mine premises and compensation for land looser is being done as per rate defined in national R&amp;R policy.</li> </ul>
xxi v	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.		<ul style="list-style-type: none"> <li>There is no mineral handling plant at Mine site. Mineral extracted is being transported to cement plant by tippers/truck tipplers, which is being covered with suitable covering mechanism for prevention of fugitive emission.</li> </ul>
xxv	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.		<ul style="list-style-type: none"> <li>Sewage treatment plant of a capacity 1500 KLD has already been installed &amp; operational at Ambujanagar. No additional colony has been developed at project site. Oil &amp; Grease Separator workshop for capturing of oil &amp; grease from waste used. There is no requirement of ETP.</li> </ul>
xxv i	The project authorities should undertake sample survey to generate data on pre-project community		<ul style="list-style-type: none"> <li>Pre-project community health status report has already been submitted to MoEF&amp;CC vide our</li> </ul>





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	health status within a radius of 1 km from proposed mine.	submission dated 25.12.2010 vide letter no. ACL/EMD/F-16/2010.
xxv ii	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	<ul style="list-style-type: none"> <li>Pre-placement medical examination and periodical medical examination of the worker men engaged is being regularly carried out at our all-existing plant and mines by team of doctors at our occupational health center &amp; Ambuja Multi speciality Hospital; Ambujanagar.</li> </ul>
xxv iii	Provision shall be made for the housing of constructions labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<ul style="list-style-type: none"> <li>All the operators and competent person resides in our existing colony at Ambujanagar, Kodinar. There is no project work at mines area this no such requirement. Whenever such requirement will be generated provision will be set up.</li> </ul>
xxi x	The critical parameters such as RSPM (Particulate matter with size less than 10µm i.e., PM10), NOx 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 <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> , shall also be referred in this regard for its compliance.	<ul style="list-style-type: none"> <li>Air quality monitoring and water quality monitoring is being done regularly and report is submitted to GPCB &amp; MoEF&amp;CC. Results of Air &amp; Water quality monitoring is being uploaded on the website of the company as well as displayed on display board at the project site near mine office. The <b>Ambient Air Quality monitoring results for the period April'2024 to September'2024 for PM2.5, PM10, SO2, NOx and CO</b> are enclosed as under:</li> </ul>

Month	Ambient Air Quality Monitoring Results (April 2024- September 2024)																			
	Singar Mines office					Working Area					Eastern Boundary					West Boundary				
	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)
Unit >																				
April 2024	36.7	54.3	21.6	26.8	B.D.L	38.4	56.8	20.4	25.3	B.D.L	33.7	57.2	18.3	27.2	B.D.L	40.3	60.4	22.6	25.8	B.D.L
	33.9	54.8	18.7	28.2	B.D.L	37.2	52.7	22.3	27.3	B.D.L	35.7	58.3	20.3	24.6	B.D.L	32.8	57.6	19.6	23.4	B.D.L
May 2024	36.9	57.3	20.3	27.2	B.D.L	38.4	58.4	19.8	25.4	B.D.L	36.2	60.2	22.1	27.1	B.D.L	37.1	59.3	21.4	25.9	B.D.L
	36.9	56.8	19.4	27.3	B.D.L	38.2	58.3	21.3	24.2	B.D.L	40.6	61.2	20.4	23.1	B.D.L	41.4	60.1	18.8	25.7	B.D.L
June 2024	31.9	32.6	16.8	22.4	B.D.L	32.7	48.8	14.2	24.8	B.D.L	34.6	51.6	15.7	19.3	B.D.L	33.8	54.9	18.6	21.9	B.D.L
	32.1	32.7	18.6	23.7	B.D.L	34.7	49.9	16.2	21.9	B.D.L	30.9	54.2	15.4	22.6	B.D.L	33.2	50.8	17.2	24.8	B.D.L
July 2024	17.8	33.9	10.8	17.1	B.D.L	18.6	34.5	12.3	18.6	B.D.L	20.3	37.2	11.6	15.7	B.D.L	19.6	39.6	9.6	14.9	B.D.L
	19.2	37.8	11.6	17.7	B.D.L	18.7	39.2	12.7	15.8	B.D.L	20.1	40.1	10.8	16.3	B.D.L	18.6	38.4	9.3	18.2	B.D.L
Aug. 2024	18.6	40.8	11.6	18.3	B.D.L	20.3	42.6	13.2	20.6	B.D.L	19.2	41.3	12.8	19.7	B.D.L	17.8	38.7	10.9	21.8	B.D.L
	20.8	41.6	14.8	22.6	B.D.L	21.2	42.8	13.7	21.8	B.D.L	18.7	40.3	14.2	23.7	B.D.L	19.3	38.9	12.8	20.9	B.D.L
Sept. 2024	19.7	42.7	12.4	20.8	B.D.L	21.4	44.6	13.8	21.2	B.D.L	20.3	43.4	12.9	19.6	B.D.L	18.9	39.8	14.2	18.7	B.D.L
	18.4	46.6	17	22.6	B.D.L	15.2	42.8	13	18.8	B.D.L	17.8	45.6	12.2	17.9	B.D.L	19.4	43.7	14.9	21.3	B.D.L

Month	Ambient Air Quality Monitoring Results (April 2024- September 2024)																			
	Khara village					Morediya Village					Barevala Village					Thordi Village				
	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)	PM2.5 (µg/m³)	PM10 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)
Unit >																				
April 2024	32.8	52.7	21.7	27.3	B.D.L	34.1	53.3	19.2	25.1	B.D.L	35.9	55.7	20.8	24.7	B.D.L	34.3	53.9	17.7	28	B.D.L
	38.3	55.2	21.4	27.1	B.D.L	34.9	54.1	18.4	25.8	B.D.L	36.5	55.9	17.9	24.7	B.D.L	37.1	53.4	23	28.1	B.D.L
May 2024	39.3	56.2	20.6	28.1	B.D.L	40.2	58.7	18.9	25.2	B.D.L	38.7	59.8	19.2	24.8	B.D.L	35.2	56.7	18.3	27.9	B.D.L
	39.3	57.3	20.9	23.8	B.D.L	37.1	59.8	17.4	22.7	B.D.L	38.9	58.2	18.9	26.4	B.D.L	36.4	56.2	22.6	27.2	B.D.L
June 2024	30.2	52.3	17.3	24.7	B.D.L	28.6	48.3	16.1	21.3	B.D.L	27.7	44.6	13.8	18.7	B.D.L	30.4	47.2	15.5	19.4	B.D.L
	34.8	47.2	13.8	20.1	B.D.L	28.6	48.6	14.9	19.7	B.D.L	26.3	45.3	13.3	21.4	B.D.L	29.4	44.9	15.6	23.3	B.D.L
July 2024	17.8	38.2	10.0	16.1	B.D.L	15.6	35.7	8.2	12.8	B.D.L	14.9	32.9	10.8	13.7	B.D.L	16.9	33.8	12.1	15.5	B.D.L
	17.3	36.2	10.1	14.3	B.D.L	16.9	35.7	8.6	13.8	B.D.L	17.3	37.9	9.3	14	B.D.L	15.7	33.8	11.3	15.6	B.D.L
Aug. 2024	16.7	35.8	9.6	18.2	B.D.L	17.2	36.3	10.7	17.5	B.D.L	16.9	37.2	11.9	16.8	B.D.L	18.4	36.9	12.1	17.2	B.D.L
	18.6	39.5	13.1	19.7	B.D.L	17.2	37.2	11.6	18.6	B.D.L	17.8	38.6	10.8	17.2	B.D.L	16.3	36.2	10.7	17.1	B.D.L
Sept. 2024	17.8	37.2	11.6	19.7	B.D.L	18.3	39.6	13.1	22.6	B.D.L	19.2	38.4	14.6	20.9	B.D.L	19.6	41.8	15.4	23.2	B.D.L
	20.1	44.2	14.8	21.5	B.D.L	18.6	41.3	16.2	20.4	B.D.L	19.3	40.4	13.2	16.2	B.D.L	22.4	47.6	12.7	19.8	B.D.L

xxx	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely Asiatic Lion, Leopard, Indian Peafowl, Eurasian Spoonbill etc. spotted in the study area, Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made	<ul style="list-style-type: none"> <li>"Status of Biodiversity (Flora &amp; Fauna) in core and buffer zone areas of Singar Limestone Mine Lease study area is prepared by "Gujarat Institute of Desert Ecology", Bhuj. The same has been submitted to MoEF&amp;CC vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010.</li> </ul>
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	and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhopal.	
xxx i	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.	<ul style="list-style-type: none"> <li>Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change (MoEF&amp;CC) 5 years in advance of final mine closure for approval.</li> </ul>

**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.	<ul style="list-style-type: none"> <li>We are following the 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 &amp; Climate Change.</li> </ul>
ii	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	<ul style="list-style-type: none"> <li>Point Noted &amp; being complied.</li> </ul>
iii	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 10µm i.e., PM10), 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.	<ul style="list-style-type: none"> <li>Four ambient air quality monitoring (core zone as well as in the buffer zone) locations have been identified as directed and are being monitored as per CPCB/SPCB guidelines. Ambient air quality monitoring reports are enclosed as under:</li> </ul>

		Ambient Air Quality Monitoring Results ( April 2024- September 2024)																			
Month	Unit >	Singar Mines office					Working Area					Eastern Boundary					West Boundary				
		PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO
		(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)
April 2024		36.7	54.3	21.6	26.8	B.D.L	38.4	56.8	20.4	25.3	B.D.L	33.7	57.2	18.3	27.2	B.D.L	40.3	60.4	22.6	25.8	B.D.L
		33.9	54.8	18.7	28.2	B.D.L	37.2	52.7	22.3	27.3	B.D.L	35.7	58.3	20.3	24.6	B.D.L	32.8	57.6	19.6	23.4	B.D.L
May 2024		36.9	57.3	20.3	27.2	B.D.L	38.4	58.4	19.8	25.4	B.D.L	36.2	60.2	22.1	27.1	B.D.L	37.1	59.3	21.4	25.9	B.D.L
		36.9	56.8	19.4	27.3	B.D.L	38.2	58.3	21.3	24.2	B.D.L	40.6	61.2	20.4	23.1	B.D.L	41.4	60.1	18.8	25.7	B.D.L
June 2024		31.9	52.6	16.8	22.4	B.D.L	32.7	48.8	14.2	24.8	B.D.L	34.6	51.6	15.7	19.3	B.D.L	33.8	54.9	18.6	21.9	B.D.L
		32.1	53.7	18.6	23.7	B.D.L	34.7	49.9	16.2	21.9	B.D.L	30.9	54.2	15.4	22.6	B.D.L	33.2	50.8	17.2	24.8	B.D.L
July 2024		17.8	33.9	19.8	17.1	B.D.L	18.6	34.5	12.3	18.6	B.D.L	20.2	37.2	11.6	15.7	B.D.L	19.6	39.6	9.6	14.9	B.D.L
		19.2	37.8	11.6	17.7	B.D.L	18.7	39.2	12.7	15.8	B.D.L	20.1	40.1	10.8	16.3	B.D.L	18.6	38.4	9.3	18.2	B.D.L
Aug. 2024		18.6	40.8	11.6	18.3	B.D.L	20.3	42.6	13.2	20.6	B.D.L	19.2	41.3	12.8	19.7	B.D.L	17.8	38.7	10.9	21.8	B.D.L
		20.8	41.6	14.8	22.6	B.D.L	21.2	42.8	13.7	21.8	B.D.L	18.7	40.3	14.2	23.7	B.D.L	19.3	38.9	12.8	20.9	B.D.L
Sept. 2024		19.7	42.7	12.4	20.8	B.D.L	21.4	44.6	13.8	21.2	B.D.L	20.3	43.4	12.9	19.6	B.D.L	18.9	39.8	14.2	18.7	B.D.L
		18.4	46.6	17	22.6	B.D.L	15.2	42.8	13	18.8	B.D.L	17.8	45.6	12.2	17.9	B.D.L	19.4	43.7	14.9	21.3	B.D.L

		Ambient Air Quality Monitoring Results ( April 2024- September 2024)																			
Month	Unit >	Khara village					Moradiya village					Barevala Village					Thordi Village				
		PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO
		(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)
April 2024		32.8	52.7	21.7	27.3	B.D.L	34.1	53.3	19.2	25.1	B.D.L	35.9	55.7	20.8	24.7	B.D.L	34.3	53.9	17.7	28	B.D.L
		38.3	55.2	21.4	27.1	B.D.L	34.9	54.1	18.4	25.8	B.D.L	36.5	55.9	17.9	24.7	B.D.L	37.1	53.4	23	28.1	B.D.L
May 2024		39.3	56.2	20.6	28.1	B.D.L	40.2	58.7	18.9	25.2	B.D.L	38.7	59.8	19.2	24.8	B.D.L	35.2	56.7	18.3	27.9	B.D.L
		39.3	57.3	20.9	23.8	B.D.L	37.1	59.8	17.4	22.7	B.D.L	38.9	58.2	18.9	26.4	B.D.L	36.4	56.2	22.6	27.2	B.D.L
June 2024		30.2	52.3	17.3	24.7	B.D.L	28.6	48.3	16.1	21.3	B.D.L	27.7	44.6	13.8	18.7	B.D.L	30.4	47.2	15.5	19.4	B.D.L
		34.8	47.2	13.8	20.1	B.D.L	28.6	48.6	14.9	19.7	B.D.L	26.3	45.3	13.3	21.4	B.D.L	29.4	44.9	15.6	23.3	B.D.L
July 2024		17.8	38.2	10.0	16.1	B.D.L	15.6	35.7	8.2	12.8	B.D.L	14.9	32.9	10.8	13.7	B.D.L	16.9	33.8	12.1	15.5	B.D.L
		17.2	36.2	10.1	14.3	B.D.L	16.9	35.7	8.6	13.8	B.D.L	17.3	37.9	9.3	14	B.D.L	15.7	33.8	11.3	15.6	B.D.L
Aug. 2024		16.7	35.8	9.6	18.2	B.D.L	17.2	36.3	10.7	17.5	B.D.L	16.9	37.2	11.9	16.8	B.D.L	18.4	36.9	12.1	17.2	B.D.L
		18.6	39.5	13.1	19.7	B.D.L	17.2	37.2	11.6	18.6	B.D.L	17.8	38.6	10.8	17.3	B.D.L	16.3	36.2	10.7	17.1	B.D.L
Sept. 2024		17.8	37.2	11.6	19.7	B.D.L	18.3	39.6	13.1	22.6	B.D.L	19.2	38.4	14.6	20.9	B.D.L	19.6	41.8	15.4	23.2	B.D.L
		20.1	44.2	14.8	21.5	B.D.L	18.6	41.3	16.2	20.4	B.D.L	19.3	49.4	13.2	16.2	B.D.L	22.4	47.6	12.7	19.8	B.D.L

iv	Data on ambient air quality RSPM (Particulate matter with size less than 10µm 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.	<ul style="list-style-type: none"> <li>Ambient air quality is being monitored regularly and report is being regularly submitted to GPCB/ MoEF&amp;CC &amp; CPCB. Latest report Submitted on <b>dated 15.05.2024</b> vide letter <b>ACL/EMD/F-16/2024/2660/May-24/415/2</b></li> </ul>
v	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer	<ul style="list-style-type: none"> <li>Environment friendly Surface Miner machine is being used for mining. Surface miner is provided with inbuilt facility of water spraying to suppress dust generated</li> </ul>








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	points should be provided and properly maintained.	during mining. On all haul roads regular water sprinkling is being done by water tankers. <b>Report of Fugitive Emission monitoring is enclosed as Under:</b>																																																																																																	
	<table><tr><th rowspan="2">Month</th><th colspan="3">Average Fugitive Emission Monitoring Results (April'2024 - September'2024)</th></tr><tr><th>Haulage Road SPM ( <math>\mu\text{g}/\text{m}^3</math> )</th><th>Nr. Loading Area SPM ( <math>\mu\text{g}/\text{m}^3</math> )</th><th>Working Pit Area SPM ( <math>\mu\text{g}/\text{m}^3</math> )</th></tr><tr><td>Apr-24</td><td>1468</td><td>1781</td><td>1854</td></tr><tr><td>May-24</td><td>1762</td><td>1689</td><td>1954</td></tr><tr><td>Jun-24</td><td>1632</td><td>1864</td><td>2173</td></tr><tr><td>Jul-24</td><td>1481</td><td>1523</td><td>1608</td></tr><tr><td>Aug-24</td><td>1281</td><td>1367</td><td>1502</td></tr><tr><td>Sep-24</td><td>1582</td><td>1687</td><td>1814</td></tr></table>		Month	Average Fugitive Emission Monitoring Results (April'2024 - September'2024)			Haulage Road SPM ( $\mu\text{g}/\text{m}^3$ )	Nr. Loading Area SPM ( $\mu\text{g}/\text{m}^3$ )	Working Pit Area SPM ( $\mu\text{g}/\text{m}^3$ )	Apr-24	1468	1781	1854	May-24	1762	1689	1954	Jun-24	1632	1864	2173	Jul-24	1481	1523	1608	Aug-24	1281	1367	1502	Sep-24	1582	1687	1814																																																																		
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Vi	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	<ul style="list-style-type: none"><li>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 routine. All the workers working in high noise areas are being provided with ear plug/earmuffs. <b>Report of ambient noise monitoring as well as HEMM noise monitoring is enclosed as Under:</b></li></ul>																																																																																																	
(a)	<table><tr><th colspan="7">Ambient Noise Level Monitoring - Singar Mines (April'2024 - September'2024)</th></tr><tr><th rowspan="3">Month</th><th colspan="6">Noise Levels in dB(A)</th></tr><tr><th colspan="2">Near Surface Miner</th><th colspan="2">Hual road</th><th colspan="2">Mines offices</th></tr><tr><th>Leq (Day)</th><th>Leq (Night)</th><th>Leq (Day)</th><th>Leq (Night)</th><th>Leq (Day)</th><th>Leq (Night)</th></tr><tr><td>Apr-24</td><td>66</td><td>62</td><td>64</td><td>58</td><td>54</td><td>43</td></tr><tr><td>May-24</td><td>64</td><td>57</td><td>63</td><td>55</td><td>54</td><td>46</td></tr><tr><td>Jun-24</td><td>65</td><td>59</td><td>63</td><td>58</td><td>53</td><td>48</td></tr><tr><td>Jul-24</td><td>62</td><td>60</td><td>65</td><td>55</td><td>54</td><td>46</td></tr><tr><td>Aug-24</td><td>64</td><td>60</td><td>62</td><td>55</td><td>56</td><td>47</td></tr><tr><td>Sep-24</td><td>66</td><td>57</td><td>63</td><td>54</td><td>54</td><td>47</td></tr></table>		Ambient Noise Level Monitoring - Singar Mines (April'2024 - September'2024)							Month	Noise Levels in dB(A)						Near Surface Miner		Hual road		Mines offices		Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Apr-24	66	62	64	58	54	43	May-24	64	57	63	55	54	46	Jun-24	65	59	63	58	53	48	Jul-24	62	60	65	55	54	46	Aug-24	64	60	62	55	56	47	Sep-24	66	57	63	54	54	47																													
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(b)	<table><tr><th colspan="9">Noise Level of HEMM - Singar Mines (April'2024 - September'2024)</th></tr><tr><th rowspan="4">Month</th><th rowspan="4">Conditions</th><th colspan="2">Surface Miner</th><th rowspan="4">Conditions</th><th colspan="2">Loader</th><th rowspan="4">Conditions</th><th colspan="2">Drzer</th></tr><tr><th colspan="2">Noise Levels (dB)</th><th colspan="2">Noise Levels (dB)</th><th colspan="2">Noise Levels (dB)</th></tr><tr><th>At 5m. distance</th><th>At 10m. distance</th><th>At 5m. distance</th><th>At 10m. distance</th><th>At 5m. distance</th><th>At 10m. distance</th></tr><tr><th>Leq</th><th>Leq</th><th>Leq</th><th>Leq</th><th>Leq</th><th>Leq</th></tr><tr><td>Apr-24</td><td>While doing the material</td><td>62</td><td>60</td><td>While loading to tpper</td><td>64</td><td>61</td><td>While mining</td><td>65</td><td>63</td></tr><tr><td>May-24</td><td>While doing the material</td><td>59</td><td>58</td><td>While loading to tpper</td><td>61</td><td>57</td><td>While mining</td><td>64</td><td>62</td></tr><tr><td>Jun-24</td><td>While doing the material</td><td>59</td><td>56</td><td>While loading to tpper</td><td>64</td><td>61</td><td>While mining</td><td>65</td><td>61</td></tr><tr><td>Jul-24</td><td>While doing the material</td><td>63</td><td>59</td><td>While loading to tpper</td><td>64</td><td>58</td><td>While mining</td><td>68</td><td>64</td></tr><tr><td>Aug-24</td><td>While doing the material</td><td>61</td><td>58</td><td>While loading to tpper</td><td>59</td><td>57</td><td>While mining</td><td>58</td><td>56</td></tr><tr><td>Sep-24</td><td>While doing the material</td><td>58</td><td>56</td><td>While loading to tpper</td><td>57</td><td>54</td><td>While mining</td><td>61</td><td>59</td></tr></table>		Noise Level of HEMM - Singar Mines (April'2024 - September'2024)									Month	Conditions	Surface Miner		Conditions	Loader		Conditions	Drzer		Noise Levels (dB)		Noise Levels (dB)		Noise Levels (dB)		At 5m. distance	At 10m. distance	At 5m. distance	At 10m. distance	At 5m. distance	At 10m. distance	Leq	Leq	Leq	Leq	Leq	Leq	Apr-24	While doing the material	62	60	While loading to tpper	64	61	While mining	65	63	May-24	While doing the material	59	58	While loading to tpper	61	57	While mining	64	62	Jun-24	While doing the material	59	56	While loading to tpper	64	61	While mining	65	61	Jul-24	While doing the material	63	59	While loading to tpper	64	58	While mining	68	64	Aug-24	While doing the material	61	58	While loading to tpper	59	57	While mining	58	56	Sep-24	While doing the material	58	56	While loading to tpper	57	54	While mining	61	59
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Vii	Industrial wastewater (workshop and wastewater 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.	<ul style="list-style-type: none"><li>No wastewater generation from Mines, only negligible amount of wastewater generated from workshop, which is being treated at baffle type oil and grease separation system and treated water is being used for Dust Suppression on Haul roads.</li></ul>																																																																																																	
Viii	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.	<ul style="list-style-type: none"><li>Dust Masks, Safety Shoes, Safety Goggles &amp; Helmet are provided to each &amp; every personnel working in the mine area. Periodic Health check-up is being done for personnel working in mines area. Work area monitoring for air borne dust is carried out regularly on monthly basis, monitoring results are enclosed as under.</li></ul>																																																																																																	



**Compliance Status of Environment Clearance issued to Singar Limestone Mines**  
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Air Borne Dust Survey - Singar Mines Mines (April'2024 - September'2024)												
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-24	14:00-22:00	Inside Cabin	0.32	12-Apr-24	14:00-22:00	Inside Cabin	0.36	26-Apr-24	14:00-22:00	Inside Cabin	0.26	
13-May-24	6:00-14:00		0.34	14-May-24	6:00-14:00		0.31	15-May-24	6:00-14:00		0.36	
26-Jun-24	6:00-14:00		0.41	27-Jun-24	6:00-14:00		0.33	29-Jun-24	6:00-14:00		0.38	
17-Jul-24	14:00-22:00		0.32	18-Jul-24	14:00-22:00		0.37	19-Jul-24	14:00-22:00		0.33	
18-Aug-24	6:00-14:00		0.37	20-Aug-24	6:00-14:00		0.34	21-Aug-24	6:00-14:00		0.38	
16-Sep-24	06:00-14:00		0.38	17-Sep-24	06:00-14:00		0.31	18-Sep-24	06:00-14:00		0.27	
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				Occupational health surveillance program of the workers is undertaken periodically by our Occupational Health Centre.								
												
								Daily Tool Box Talk at Workplace				
ix	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 <b>Environmental Management Division (EMD)</b> with suitable qualified personnel is in place. Head of environmental management cell directly report to the Unit Head of the organization. <b>EMD organization chart</b> is enclosed as under: <div data-bbox="956 1308 1370 1554"><p align="center"><b>Organisation chart</b></p><pre>graph TD     A[Chief Manufacturing Officer / Unit Head] --&gt; B[Head - Environment]     B --&gt; C[Asst Manager Environment]     B --&gt; D[Officer(Env.)] </pre></div>							
x	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry 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 Plant - Singar Mines			Ambuja Cement Foundation - Ambujanagar							
A. Capital Investment For Environmental Monitoring :			Details for programme wise expenditure for the year April to Sept. 2024							
Sr. No.	Particulars	Cost (in lacs)	(Rs. in lakhs)							
1	Monitoring Equipments	40.14								
2	Environment Laboratory	15.38								
3	Others (Monitoring Van,DG Sets,etc.)	10.00								
TOTAL (in lacs INR)										
B. Requiring Expenditure For The Period Of April/24 to September/24										
Sr. No.	Particulars	Cost (in lacs)	Sr. No.	Programme	ACF - ACF	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contributions	****Direct Funding to Communities	Total Exp.
			GUJARAT - Kadiwar							
			1 Water Resource Management & Drinking Water Projects							
			a. Water Resource Development							
			b. Drinking Water Programme							
			c. Agriculture Development (Drip Irrigation, Farm Forestry & Afforestation)							
			d. Better Cotton and others							
			e. Krishi Vigyan Kendra (KVK) - Agriculture							
			f. Health & Sanitation							
			g. Education Programme							
			h. Women / Youth Development							
			i. Skill and Entrepreneurship Development Programme							
			j. Integrated Community Development Programme							
			k. Co-ordination & Administration Expenses							
			l. Capital Expenditure							
			TOTAL							
</										